HEALTHCARE PROVIDER	ALPHA
Diagnosis	
Alpha-1 Antitrypsin Deficiency	Discuss Alpha-1 diagnosis
 Confirmed (1 time) Pi-Type Genotype Alpha-1 level Consider consultation with an Alpha-1 lung or liver specialist Genetic counseling and family testing Discussion of membership in the Alpha-1 1 Research Registry Discussion of participation in appropriate clinical trials 	 Phenotype Genotype Alpha-1 level Ask about evaluation by a healthcare professional with expertise in Alpha-1 (lung and/or liver disease) Discuss genetic and hereditary considerations Discuss family testing Consider participation in the Alpha-1 Research Registry and research studies
Pulmonary Diagnosis	Pulmonary Diagnosis
Alpha-1 Antitrypsin Deficiency • COPD - Emphysema - Chronic Bronchitis • Bronchiectasis • Asthma • Other:	I'm an Alpha with lung disease • Emphysema • Chronic Bronchitis • Bronchiectasis • Asthma • Other:
Evaluate for Related Medical Conditions Gastroesophageal reflux/aspiration Sinusitis Liver disease Sleep apnea and nocturnal desaturation Pulmonary hypertension Osteoporosis, bone loss Necrotizing panniculitis Granulomatosis with Polyangiitis Atypical mycobacteria Rare conditions associated with Alpha-1: 	Report the following symptoms: • Heartburn • Sinus problems - Constant or nighttime drip/draining - Sore throat • Sleep problems - Snoring - Tired when I wake up • Skin problems - Rash/itching/pain/eruptions • Liver symptoms - Jaundice (skin yellowing) - Bleeding
Health Status Assessments (Once a year, at least)	
Laboratory	Laboratory
 CBC, platelets PT ABG's or oximetry 	Ask healthcare provider to discuss lab tests and implication for lung status, liver status, and other conditions

 ALT, AST, GGTP, Bilirubin total and direct, LDH, Alk.Phos. 	
Pulmonary Function Testing	Pulmonary Function Testing
 Complete pulmonary function tests pre- and post-bronchodilator including plethysmographic lung volumes and DLCO Spirometry alone (if more complete testing unavailable) 6-minute walk with oximetry and titration Classify COPD severity Consider lung transplant evaluation if very severe air flow obstruction 	Discuss concerns regarding pulmonary function testing
Radiology	Radiology
 Chest PA and lateral or baseline high resolution CT of chest (1 time only) or follow-up CT of chest (if change in clinical status) Bone densitometry (baseline and as indicated) 	 Discuss concerns regarding radiation exposure Discuss results and implication for lung status
Medications	Medications
Medication review with special emphasis on simplification of the medical regimen, new therapeutics on the horizon, and better self- management by patient	 Bring list of all medications to review with physician Review the expiration dates on all home medicines Discuss side effects/problems Ask if medicines can be reduced or eliminated
Usual medications for Alpha-1-COPD • Long acting beta-agonist • Inhaled corticosteroid • Long acting muscarinic • Rescue inhaler	Keep a complete written list of all your medicines where you can easily find it I'm on: Long acting bronchodilator(s)
At-home medications to manage exacerbations • Antibiotic (take at first sign of lung infection):	Inhaled steroids Steroid pills Rescue inhaler
Short course oral steroids	During a flare-up (exacerbation) • I can self-treat at home

Patient's trend in exacerbation frequency is: No exacerbations More frequent or severe exacerbations Less frequent or severe exacerbations Oxygen prescription (including justifying ABG and/or oximetry): Rest	 Drink fluids Sputum clearance techniques Relaxation I start antibiotics and have them at home for this reason I increase my inhaled medications and adjust them to my symptoms as planned with my healthcare provider I use steroid pills and have them at home as planned with my healthcare provider I know when I need to call my healthcare provider, go to the emergency room or call 911 Discuss issues related to oxygen therapy Changes in breathing with rest/exercise/sleep Types of systems/equipment Check insurance Coverage
Lifestvle	e Management
Immunizations	Immunizations
 Influenza vaccine Pneumococcal vaccine (q 5 yrs. if COPD) Prevnar-13 Hepatitis A vaccine Hepatitis B vaccine TDaP 	 Influenza vaccine Pneumococcal vaccine (q 5 yrs. if COPD) Prevnar-13 Hepatitis A vaccine Hepatitis B vaccine TDaP
Smoking Cessation	Smoking Cessation
 Referral to smoking cessation program Nicotine replacement therapy prescribed 	 I don't smoke or have a plan in place to stop I'm in a smoking cessation program I use my nicotine replacement therapy I have a strategy in place to avoid second- hand smoke
Ancillary Information	Ancillary Information
 Consultation with an Alpha-1 Aware healthcare provider or Alpha-1 Clinical Resource Center over coming years Family/genetic counseling and consideration of family testing for Alpha-1 	 Discuss evaluation by a healthcare provider with special expertise in Alpha-1 Discuss genetic and hereditary considerations Discuss risks and benefits of testing family members

 Discussion of participation in local support group and membership in the Alpha-1 Association, the Alpha-1 Research Registry, and the Alpha-1 DNA and Tissue Bank Discussion of participation in appropriate clinical trials 	 Find out about local and national resources that can help me educate myself and help others Consider learning about and joining in drug studies
Toxic Exposure	Toxic Exposure
 Assess potential for inhaled toxic exposure in the home and workplace Assess use of alcohol/other liver toxic substances including medications 	 Discuss the potential for toxic exposure in the workplace with supervisor Have strategies in place to avoid occupational dust and fume exposure As appropriate, have a properly fitted mask Know how to access of MSDS at work I'm aware of those substances in my home or outdoors that are toxic or irritating to my lungs and have a plan to avoid them Examples: Cleaning substances/wood smoke
	Discuss the risks associated with alcohol consumption and Alpha-1. Ask about the effects of your medications on the liver
Diet and Nutrition	Diet and Nutrition
Current Weight:	Current Weight:
<u>If Overweight</u>	This weight is:
 Consider dietary consultation Specific diet recommendations Recommendations for exercise programs 	Overweight Underweight Desired weight <u>If Overweight:</u>
Home exercise program Pulmonary Rehabilitation	 Develop or enroll in a weight management plan Develop or enroll in an exercise program Discuss the use of vitamins and mineral supplements

<u>If Underweight</u>	If Underweight:
 Dietary consultation with on-going intervention until normal weight restored Nutrition plan with consideration of dietary supplements and/or medical nutrition intervention Pulmonary Rehabilitation 	 Discuss the need for a nutrition evaluation with healthcare provider Discuss the use of vitamins and mineral supplements and potential need for other nutritional interventions Discuss pulmonary rehabilitation and exercise limitations until weight stabilized
Activity and Fitness: Improvement and Maintenance	Activity and Fitness: Improvement and Maintenance
Assess current fitness level	Develop and implement a specific exercise program based on your healthcare provider's
Home Exercise Program recommendations:	recommendation, your motivation and perceived level of fitness
Warm-up and stretching	For weight loss
Muscle strengthening Conditional sectors	 For improved functioning For maintenance
Cardiopulmonary (endurance)	• For maintenance
Pulmonary Rehabilitation referral • For endurance and strength • For ADL and pacing	 Home Exercise Program Discuss use of oxygen with exercise Request specific recommendations for warm- up and stretching, muscle strengthening and cardiopulmonary (endurance) training. Date started
For 6-minute walkFor oximetry at rest and with exertion	Discuss the need for a referral to a Pulmonary
• For instruction for self-monitoring	Rehabilitation Program
	Check insurance coverage Date started
Coping and S	Support Strategies
	I understand and accept the diagnosis of Alpha-1, and my family does, too.
 Discuss long-term implications of diagnosis with chronic disease Discuss participation in local support organizations Assess for presence of depression 	My family understands and accepts the diagnosis of Alpha-1 I can find local and national resources to support and educate myself and my family • Alpha-1 Foundation • AlphaNet

 Consider professional evaluation if symptoms persist or become severe Consider antidepressants Provide opportunity of discussion of issues related to sexuality/sexual performance/dysfunction as related to COPD Consider referral to a specialist Discuss medical and lifestyle implications of organ transplantation 	 Report the following symptoms On-going feelings of sadness Sleep loss/sleeping excessively Chronic fatigue Weight loss Withdrawal from activities/people Thoughts of suicide Discuss issues of sexuality/sexual performance/dysfunction with your healthcare provider particularly as related to COPD Energy requirements/breathing implications/use of oxygen equipment during sexual activity Body image Ask for referrals to appropriate support services Discuss lung transplantation/preparatory issues, lifestyle implications
	 Selecting a program Getting listed Discuss potential with family
	 Seek support from transplanted Alpha's
End of Life/Advance Directives	End of life/Advance Directives
Explain, ascertain and document patient's advance medical directives	Discuss end of life issues with my healthcare provider and family
Discuss organ donation	Ensure that your wishes are known and carried out by preparing appropriate documents
	Consider organ donation