

[Click here for topics associated with this algorithm](#)

Rule out:  
 1. Physical/anatomic lesions, such as foreign body (bronchial), eustachian tube dysfunction, indwelling catheter, or other anatomic abnormalities  
 2. Cancer  
 3. Connective tissue diseases  
 4. Diabetes  
 5. Renal disease

Then perform the following testing:  
 1. [Comprehensive Metabolic Panel](#) (general health screening for immunodeficiency)  
 2. [CBC with Platelet Count](#) (general health screening for immunodeficiency)  
 3. [Human Immunodeficiency Virus \(HIV\) Combo Antigen/Antibody \(HIV-1/O2\) by CIA, with Reflex to HIV-1 Antibody Confirmation by Western Blot](#)  
 4. [Protein Electrophoresis with Reflex to Immunofixation Electrophoresis Monoclonal Protein Detection, Quantitation and Characterization, IgA, IgG and IgM, Serum](#) AND [Immunofixation, Random, Urine](#) OR [Monoclonal Protein Study, Serum](#) and [Immunoglobulins \(IgA, IgG, IgM\), Quantitative](#)  
 5. Sweat chloride (at accredited cystic fibrosis center)  
 6. If only recurrent sinopulmonary disease – pneumococcal antibody IgG titers pre and post vaccine (1 month)

