Introduction:
GAS pneumonia is an uncommon cause of community-acquired pneumonia. It is associated with underlying conditions, such as chronic lung disease. Transmission of GAS can occur within households. Progression is rapid, and the 30-day mortality rate is high.

Case Presentation:
An 80-year-old male patient with a history of chronic obstructive pulmonary disease and anorexia developed exertional dyspnea and a productive cough three days before hospital admission.

Symptoms did not improve and he developed a fever on the day of hospital admission. As his mental status deteriorated, he came to our hospital by ambulance. The patient's family history was notable in that his daughter and grandchild both had streptococcal pharyngitis. On examination, his mental state was scored as E4V4M6, temperature was 39.3°C, systolic blood pressure 70 mmHg, heart rate 110 beats per minute, respiratory rate 36 breaths per minute and oxygen saturation level 85% while breathing ambient air. On auscultation, there were pan-inspiratory crackles in both lungs. White blood cell count was 18090/μL, blood urea nitrogen was 45.5 mg/dL, serum creatinine was 2.36 mg/dL. Chest X-ray and computed tomography revealed hyperinflation and infiltrative shadows in both lungs. We started antimicrobials of meropenem and vancomycin as a treatment for sepsis with bacterial pneumonia. On the 6th hospital day, blood and sputum culture showed Streptococcus pyogenes (group A streptococcus, GAS). We diagnosed GAS pneumonia and invasive GAS infection. We changed antimicrobials to ampicillin 2 grams every 8 hours. The patient's respiratory condition gradually improved and on the 21st hospital day, he was discharged with good vital signs.

Discussion:
A high index of suspicion for GAS pneumonia is based on history, such as contact with sick people and underlying disease. Rapid application of the most appropriate treatment is crucial.