

Pulmonary Amyloidosis



Case ONE (1): MSC Stem Cell Therapy, Pulmonary Amyloidosis with Obstructive Pneumonia

Patient Profile

Male, 51 years old

Medical Condition

- Since 2017 (3 years): recurrent cough, sputum, chest tightness, shortness of breath, limited activity, poor sleep
- Since 2019 (1 year): symptoms worsened and became more frequent, occasional blood-stained sputum, persistent and difficult to cure
- 10 months prior: symptoms aggravated, emergency admission to Hospital
 - Diagnosis: pulmonary and tracheal amyloidosis; hypertension; diabetes; hypoxemia; and 16 other complications
 - Bronchoscopy: diffuse lesions and narrowing of all grades of bronchi, unsuitable for ablation, cryotherapy, or stent intervention
 - Recommendation: trachea + lung transplantation
 - Patient and family understood but had no other options

Treatment

- July 30, 2020, received MSC stem cell therapy

Outcome

- After 5 days: patient reported smoother breathing, less breathlessness on climbing stairs, increased strength, improved spirit, and chest tightness eased
- After 2 months: symptoms of cough, sputum, chest tightness, shortness of breath, and activity limitation almost completely disappeared
- After 1 year: marked improvement in physical condition and vitality, gained 5 kg, resumed normal busy work life

Key benefits of MSC therapy for lung disease

(Pulmonary Amyloidosis with Obstructive Pneumonia):

- **Alternative to transplant** – avoided high-risk trachea + lung transplantation when no other treatment options were viable.
- **Rapid relief** – within 5 days, breathing eased, chest tightness reduced, and stamina improved.
- **Progressive recovery** – within 2 months, cough, sputum, shortness of breath, and activity limitations almost disappeared.
- **Long-term restoration** – after 1 year, regained vitality, gained healthy weight (+5 kg), and resumed a normal busy work life.
- **Safe and minimally invasive** – stem cell infusion achieved organ-level repair without surgical trauma.

★ **Key message:** From end-stage disease with only transplant as an option → to full functional recovery with MSC therapy.



BEFORE



AFTER



AFTER: JULY 2021