

Lung Transplant Rejection Market - A Global and Regional Analysis: Focus on Country and Region - Analysis and Forecast, 2025-2035

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Abstracts

Lung transplant rejection is a significant concern in lung transplantation, where the recipient's immune system attacks the transplanted lung tissue, leading to graft dysfunction or failure. This condition can occur immediately after transplantation (hyperacute rejection), within the first few months (acute rejection), or even years after the procedure (chronic rejection). The primary cause of rejection is the body's immune response against the foreign tissues of the transplanted lung, triggered by factors such as a mismatch in human leukocyte antigen (HLA) types, infection, or inflammation. Symptoms include shortness of breath, cough, fever, fatigue, and reduced lung function. If left untreated, lung transplant rejection can lead to irreversible damage, the need for re-transplantation, or death. Early diagnosis and intervention are crucial to preserving lung function and prolonging graft survival. Advancements in immunosuppressive therapies and diagnostic technologies are helping reduce the incidence and severity of lung transplant rejection, driving growth in the lung transplant market.

The diagnosis of lung transplant rejection typically involves routine clinical examination and monitoring of lung function tests such as spirometry, pulmonary function tests, and chest imaging. In some cases, bronchoscopy with biopsy is performed to evaluate the degree of rejection and detect signs of inflammation or tissue damage. Advances in biomarker discovery and non-invasive diagnostic techniques, such as blood and exhaled breath tests for early signs of rejection, are helping improve the accuracy of detection, enabling more timely intervention and personalized treatment strategies. While clinical monitoring remains the mainstay of rejection diagnosis, new technologies are streamlining the process and improving patient outcomes by detecting rejection in its early stages.

The global lung transplant rejection market is expanding, driven by rising awareness of lung transplant complications, increasing demand for effective rejection prevention strategies, and ongoing research into better immunosuppressive therapies. Innovations in immunosuppressive drugs, are improving graft survival and reducing the likelihood of rejection. Moreover, the development of induction therapy and steroid-sparing regimens is making immunosuppressive treatment safer and more effective, minimizing side effects such as infection and organ toxicity. The use of targeted therapies, based on genetic and immunological profiling, is allowing for more personalized treatment regimens, improving both graft survival rates and quality of life for recipients. Additionally, advances in lung preservation technologies, such as ex vivo lung perfusion (EVLP) and normothermic perfusion, are improving the viability of donor lungs, further reducing the risk of rejection.

Despite these advancements, the lung transplant rejection market faces several challenges. One of the major barriers is the high cost of immunosuppressive drugs.

Key players in the lung transplant rejection market include TFF Pharmaceuticals, Inc., and Astellas Pharma. These companies are investing heavily in research and development to improve existing immunosuppressive therapies, develop new biologics, and explore innovative approaches to prevent rejection and enhance graft survival. Strategic collaborations between pharmaceutical companies, academic research institutions, and transplant centers are accelerating efforts to find more effective treatments and improve patient outcomes. Additionally, partnerships with regulatory bodies and non-profit organizations are promoting awareness and improving donor organ procurement, which could help reduce rejection rates and improve survival outcomes.

The competitive landscape of the lung transplant rejection market is shaped by the presence of both large pharmaceutical companies and specialized biotech firms, all working to address the unmet needs in transplant rejection prevention and management. Smaller companies are focusing on niche areas, such as gene therapies, immune modulation, and biomarker development, which could potentially revolutionize the approach to lung transplant rejection. As research into immune tolerance and novel drug delivery systems continues, the market is expected to diversify with more targeted and efficient therapies. Collaborations between drug developers, healthcare providers, and patient advocacy organizations will be essential in improving access to therapies and advancing the treatment of lung transplant rejection globally.

With expanding healthcare infrastructure in emerging markets and improved diagnostic

tools for early detection, the lung transplant rejection market is positioned for continued growth, supported by ongoing research and advancements in prevention and treatment.

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Contents

Executive Summary
Scope and Definition
Market/Product Definition
Inclusion and Exclusion
Key Questions Answered
Analysis and Forecast Note

1. GLOBAL LUNG TRANSPLANT REJECTION MARKET: INDUSTRY ANALYSIS

1.1 Market Overview and Ecosystem
1.2 Epidemiological Analysis
1.3 Key Market Trends
1.4 Regulatory Landscape
1.5 Pipeline Analysis
1.6 Market Dynamics
 1.6.1 Impact Analysis
 1.6.2 Market Drivers
 1.6.3 Market Restraints
 1.6.4 Market Opportunities

2. GLOBAL LUNG TRANSPLANT REJECTION MARKET, REGION, \$MILLION, 2024-2035

2.1 North America
 2.1.1 Market Dynamics
 2.1.2 Market Sizing and Forecast
 2.1.2.1 North America Lung Transplant Rejection Market, by Country (\$ Million), 2024-2035
 2.1.2.2 U.S.
2.2 Europe
 2.2.1 Market Dynamics
 2.2.2 Market Sizing and Forecast
 2.2.2.1 Europe Lung Transplant Rejection Market, by Country (\$ Million), 2024-2035
 2.2.2.1.1 U.K.
 2.2.2.1.2 France
 2.2.2.1.3 Germany
 2.2.2.1.4 Italy

2.2.2.1.5 Spain

2.3 Asia-Pacific

2.3.1 Market Dynamics

2.3.2 Market Sizing and Forecast

2.3.2.1 Asia-Pacific Lung Transplant Rejection Market, by Country (\$ Million), 2024-2035

2.3.2.1.1 Japan

2.4 Rest-of-the-World

2.4.1 Market Dynamics

2.4.2 Market Sizing and Forecast

3. GLOBAL LUNG TRANSPLANT REJECTION MARKET: COMPETITIVE LANDSCAPE AND COMPANY PROFILES

3.1 Competitive Landscape

3.1.1 Mergers and Acquisitions

3.1.2 Partnership, Alliances and Business Expansion

3.1.3 New Offerings

3.1.4 Regulatory Activities

3.1.5 Funding Activities

3.2 Company Profiles

3.2.1 Astellas Pharma Inc.

3.2.1.1 Overview

3.2.1.2 Top Products / Product Portfolio

3.2.1.3 Top Competitors

3.2.1.4 Target Customers/End-Users

3.2.1.5 Key Personnel

3.2.1.6 Analyst View

3.2.2 TFF Pharmaceuticals, Inc.

3.2.2.1 Overview

3.2.2.2 Top Products / Product Portfolio

3.2.2.3 Top Competitors

3.2.2.4 Target Customers/End-Users

3.2.2.5 Key Personnel

3.2.2.6 Analyst View

3.2.3 Others

4. RESEARCH METHODOLOGY

List Of Figures

LIST OF FIGURES

- Figure: Global Lung Transplant Rejection Market, 2024 and 2035
- Figure: Global Lung Transplant Rejection Market Coverage
- Figure: Global Lung Transplant Rejection Market Key Trends, Impact Analysis, 2023-2035
- Figure: North America Lung Transplant Rejection Market, \$Million, 2024-2035
- Figure: Europe Lung Transplant Rejection Market, \$Million, 2024-2035
- Figure: Asia-Pacific Lung Transplant Rejection Market, \$Million, 2024-2035

List Of Tables

LIST OF TABLES

Table: Market Snapshot

Table: Global Lung Transplant Rejection Market, Region, \$ Million, 2024-2035

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