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**Name of Journal:** *World Journal of Transplantation*

**Manuscript NO:** 54870

**Manuscript Type:** REVIEW

**Chronic lung allograft dysfunction post-lung transplantation: The era of  
bronchiolitis obliterans syndrome and restrictive allograft syndrome**


Yoshiyasu N *et al.* Chronic lung allograft dysfunction

Nobuyuki Yoshiyasu, Masaaki Sato

### Abstract

Chronic lung allograft dysfunction (CLAD) following lung transplantation limits long-term survival considerably. The main reason for this is a lack of knowledge regarding the pathological condition and the establishment of treatment. The consensus statement from the International Society for Heart and Lung Transplantation on CLAD in 2012 defined CLAD into two main phenotypes: bronchiolitis obliterans syndrome



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<https://www.ncbi.nlm.nih.gov/pubmed/21419659>

BACKGROUND: Bronchiolitis obliterans syndrome (BOS) with small-airway pathology and obstructive pulmonary physiology may not be the only form of chronic lung allograft dysfunction (CLAD) after lung transplantation. Characteristics of a form of CLAD consisting of restrictive functional changes involving peripheral lung pathology were investigated.

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Publish Year: 2011

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Chronic lung allograft dysfunction (CLAD) is a clinical spirometric diagnosis characterized by an irreversible decline in the FEV<sub>1</sub> of 20% or more relative to the highest post-transplant baseline representing one of the significant limitations in the survival of post-lung transplant patients.

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Bronchiolitis Obliterans refers to the permanent loss of lung allograft function due to airway remodeling and fibrosis. It is uncommon in the first two years after lung transplant, but it eventually affects the majority of lung transplant recipients and is the leading cause of death beyond the first year post transplant.





Chronic lung allograft dysfunction post-lung transplantation: The



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**Lung transplantation** is a therapeutic option for patients with end-stage pulmonary disorders. Unfortunately, **chronic lung allograft dysfunction** (CLAD), most commonly manifest as **bronchiolitis obliterans syndrome** (BOS), continues to be highly prevalent and is ...

**Cited by:** 86      **Author:** S. Samuel Weigt, Ariss DerHovanesian, ...

**Publish Year:** 2013

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## [Restrictive chronic lung allograft dysfunction: Where are ...](#)

<https://www.sciencedirect.com/science/article/pii/S1053249814014405>

**Chronic lung allograft dysfunction** (CLAD) remains a frequent and troublesome complication after **lung transplantation**. Apart from **bronchiolitis obliterans syndrome** (BOS), a **restrictive** phenotype of CLAD (rCLAD) has recently been recognized, which occurs in approximately 30% of CLAD patients.

**Cited by:** 64      **Author:** Stijn E. Verleden, David Ruttens, Elly Van...

**Publish Year:** 2015





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## [Restrictive allograft syndrome \(RAS\): a novel form of ...](#)

<https://www.ncbi.nlm.nih.gov/pubmed/21419659>

BACKGROUND: **Bronchiolitis obliterans syndrome** (BOS) with small-airway pathology and obstructive pulmonary physiology may not be the only form of **chronic lung allograft dysfunction** (CLAD) after **lung transplantation**. Characteristics of a form of CLAD consisting of **restrictive** functional changes involving peripheral **lung** pathology were investigated.

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<https://www.nature.com/articles/modpathol2012171>

Sep 28, 2012 · Although **bronchiolitis obliterans syndrome** had long been considered virtually synonymously with **chronic lung allograft dysfunction** in **lung transplant** ...

**Cited by:** 152      **Author:** Efrat Ofek, Efrat Ofek, Masaaki Sato, Ma...

**Publish Year:** 2013

## [Chronic lung allograft dysfunction | Radiology Reference ...](#)

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