

# The Indications and Timing for Living Related Lung Transplantation

## Fukuoka University Institutional Guidelines for the Implementation and Our Policy

Takeshi SHIRAIISHI<sup>1,5)</sup>, Masafumi HIRATSUKA<sup>1)</sup>, Takao HIGUCHI<sup>1)</sup>,  
Jun YANAGISAWA<sup>1)</sup>, Mitsuteru MUNAKATA<sup>1)</sup>, Satoshi MAKIHATA<sup>1)</sup>,  
Takao UENO<sup>1)</sup>, Yasuteru YOSHINAGA<sup>1)</sup>, Akinori IWASAKI<sup>1,5)</sup>,  
Yasushi YAMAUCHI<sup>2)</sup>, Kouji MIKAMI<sup>2)</sup>, Tomoaki NORITOMI<sup>2,5)</sup>,  
Yu-ichi YAMASHITA<sup>2,5)</sup>, Takashige KURAKI<sup>3)</sup>, Masaki FUJITA<sup>3)</sup>,  
Kentarō WATANABE<sup>3)</sup>, Manami TAKAISHI<sup>4,5)</sup> and Takayuki SHIRAKUSA<sup>1,5)</sup>

<sup>1)</sup> *Department of Thoracic, Endocrine and Pediatric Surgery*

<sup>2)</sup> *Department of Gastroenterological Surgery*

<sup>3)</sup> *Department of Respiratory Medicine, Fukuoka University Faculty of Medicine*

<sup>4)</sup> *Fukuoka University Hospital Transplant Coordinator*

<sup>5)</sup> *Organ Transplantation Service at Fukuoka University Hospital, Fukuoka, Japan*

**Abstract :** Living-donor lobar lung transplantation (LDLLT) has been recognized as an acceptable transplant option only for individual candidates thought to be too critical to wait for cadaveric organs. In the majority of US and European lung transplant protocols, cadaveric lung transplant is dominant with LDLLT only being performed in exceptional cases. According to the Japanese protocol, however, LDLLT is more frequently performed because of the extremely limited number of cadaveric lung donations due to social and moral customs regarding brain death in Japan. The difference in this situation seems to have resulted in this delicate difference regarding the policy to perform LDLLT. We now consider LDLLT to therefore be one of the "Standard lung transplant options" in Japan. As a result, it should be performed within the bounds of acceptable and safe surgical risk before the patient becomes too ill.

**Key words :** Lung Transplantation, Living Related Donor, Living-donor Lobar Lung Transplantation