

## MPACT OF DONOR AGE ON IPF PATIENT SURVIVAL IN LUNG TRANSPLANTATION

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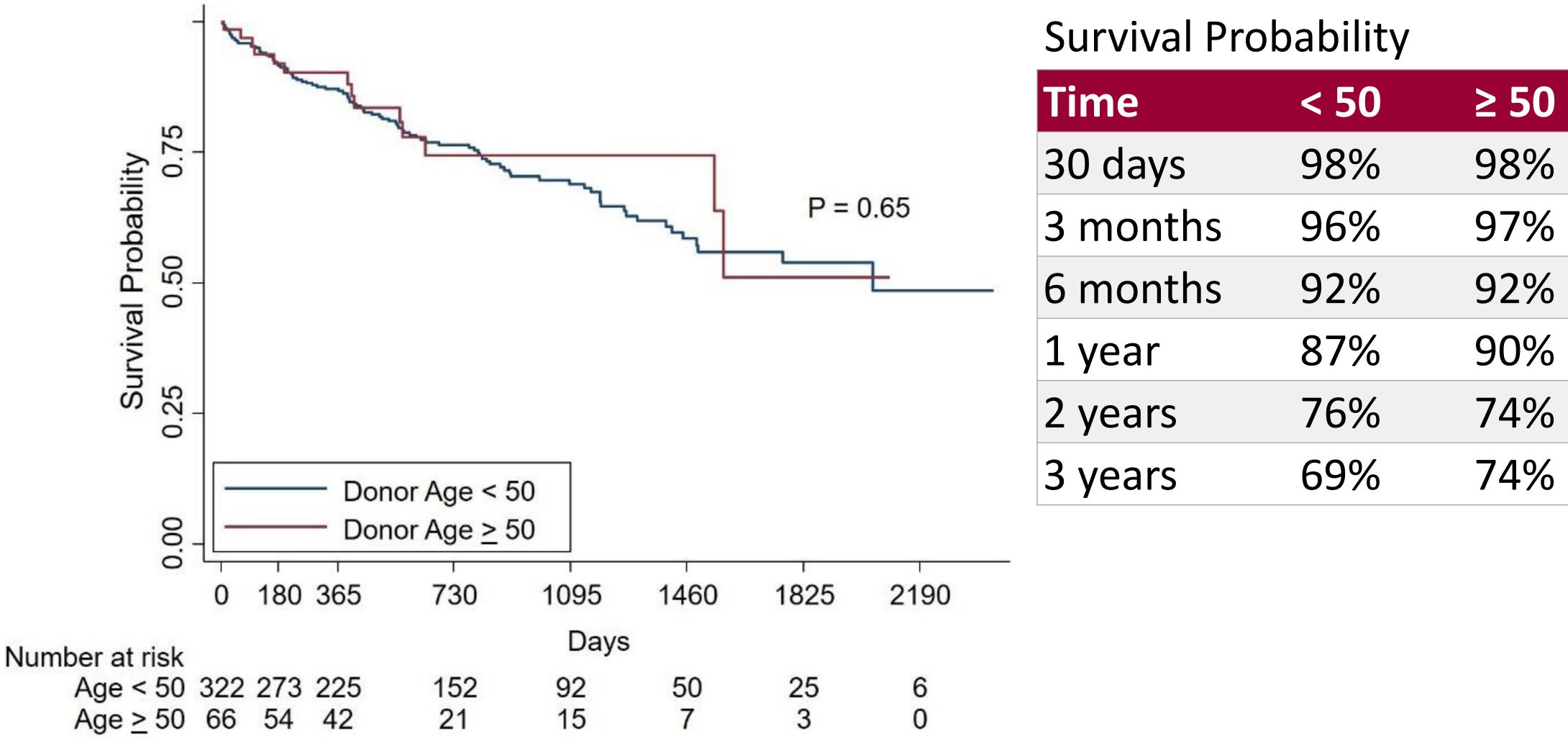


Currently, idiopathic pulmonary fibrosis (IPF) patients are the most Patients (n=388) were separated into two groups based on donor age: 8-49 years old (n=322) vs. 50-65 years old (n=66). Demographic data showed no

common candidates for single or double lung transplantation<sup>1</sup>. Due to their high mortality on the waiting list<sup>2</sup>, potential older donors are considered frequently for lung transplantation.

We investigated the survival outcome of IPF patients receiving lungs from donors aged <50 and ≥50 years.

significant differences between the two groups (<50 vs.  $\geq$ 50 donor age) for recipients' age (p=0.49), sex (p=0.64), height (p=0.90), BMI (p=0.10), and donors' sex (p=0.20). Clinical parameters such as LAS (p=0.46), LOS (p=0.34), CPB on vs off (p=0.40), Campath vs. Simulect induction (p=0.40), and antero-apical, clamshell, median sternotomy surgical approaches (p=0.59) were not significantly different between the two donor age groups. Log-rank test for equality of survivor functions demonstrated no significant difference between cohorts (p=0.65; KM curve).



We performed a retrospective study of IPF transplant recipients that underwent either a single or double lung transplant at our center (Mar-2012 to Jun-2019) and patients were divided into two groups (donors age <50 vs.  $\geq$ 50 years old).

METHODS

Variables such as age, sex, height, BMI, lung allocation score (LAS), length of stay (LOS), use of cardiopulmonary bypass (CPB), types of induction and surgical procedures were compared between the two groups for significance (p<0.05) using STATA Inc (10.0). Survival was compared

1 year	8/%	90%	
2 years	76%	74%	
3 years	69%	74%	

REFERENCES

In idiopathic pulmonary fibrosis patients, survival outcomes after lung transplantation using donors below 50 years old were similar to

CONCLUSIONS

Valapour, M., Lehr, C. J., Skeans, M. A., Smith, J. M., Uccellini, K., Lehman, R., Robinson, A., Israni, A. K., Snyder, J. J. & Kasiske, B. L. OPTN/SRTR 2017 Annual Data Report: Lung. Am J Transplant 2019; 19 (Suppl 2):404–484. doi: 10.1111/ajt.15279 2. Kistler, K. D., Nalysnyk, L., Rotella, P., & Esser, D. (2014). Lung transplantation in idiopathic pulmonary fibrosis: a systematic review of the literature. BMC pulmonary medicine, 14, 139. doi:10.1186/1471-2466-14-139

by log-rank test using a Kaplan-Meier curve.

Data were expressed as mean  $\pm$ standard deviation and p-value <0.05 was considered significant.

using donors  $\geq$  50-65 years old.

Utilizing suitable older donor lungs has the potential to increase the donor pool and reduce waitlist mortality in IPF patients.

Disclosures: none