



EVALUATION OF THE DEGREE OF THERAPEUTIC KNOWLEDGE IN LUNG TRANSPLANT RECIPIENTS

Sanabrias Fernández de Sevilla, R.; Calvo Salvador, M.; Gumiel Baena, I.; García Cerezuela M.D.; Lozano Llano, C.; Repilado Álvarez, A.; Sanz Rodríguez S.; Alcaraz López JI.; Muñoz Gómez T.; Ussetti Gil, M.P.; Sánchez Guerrero, A.
Pharmacy and Neumology Departments - Hospital Universitario Puerta de Hierro Majadahonda (Madrid)

BACKGROUND AND IMPORTANCE

Lung transplant (LT) recipients require intensive and continuous care due to the great complexity and relevance of pharmacological treatments in the clinical course after transplantation.

The patient must acquire knowledge and skills that allow him to actively participate in the control of his "new disease".

AIM AND OBJECTIVES

To analyze the degree of LT recipient knowledge about their treatment in the immediate post-transplant period and to identify weaknesses and characteristics of the patients.

MATERIALS AND METHODS

Prospective Observational Study from June-December 2019
e-duca pilot phase: e-learning program in LT recipients.



We designed a **25-multiple answer question test** which was completed by the patients before post-transplant discharge.

18 Pharmacological treatment

- Immunosuppressant treatment
- Antimicrobial prophylaxis
- Coadjuvant therapy

7 Self-care

- Hygiene
- Feeding
- Pets
- Masks
- Nebulizers

VARIABLES

- Age and gender
- LT indication
- Educational attainment
- Number of drugs prescribed
- Test score (TS)
- Answers correctly with more or less frequency

DEGREE OF KNOWLEDGE

- HIGH TS $\geq 20/25$
- MODERATE TS 13-20/25
- DEFICIENT TS $< 13/25$

RESULTS

Variables	N=16
Age, years (range)	61.4 (48-68)
Gender (man), n (%)	13 (81.3%)
Lung transplant indication, n (%):	
• COPD	9 (56.3%)
• Idiopathic Pulmonary Fibrosis	6 (37.5%)
• Bronchiectasis	1 (3.2%)
Educational attainment, n (%)	
• University graduate	3 (18.8%)
• High school graduate	4 (25%)
• Middle school graduate	9 (56.2%)
Total drugs count, mean (range)	14.31 (9-20)
Test score, mean (range)	14.56 (6-22)
• Poor knowledge degree, n (%)	5 (31.3%)
• Moderate knowledge degree, n (%)	10 (62.5%)
• High knowledge degree, n (%)	1 (6.2%)

COPD= Chronic Obstructive Pulmonary Disease IS= Immunosuppressant

MOST FREQUENTLY RIGHT ANSWERS

✓

- Function and duration of IS treatment: 93.8%
- How to take tacrolimus and mycophenolate: 87.5%
- Correct use of masks: 87.5% and nebulizers: 81.3%

LEAST FREQUENTLY RIGHT ANSWERS

✗

- The role of adjuvant therapy: 6.25%
- To identify prednisone as IS: 43,75%
- Acting correctly when vomiting after taking IS: 56.3%

CONCLUSION AND RELEVANCE



This kind of tests allows us to know the patients' skills about their treatment and to identify those points to be reinforced by the pharmacist as part of the healthcare team that attends to the patient, early detecting possible medication errors.