# ASSESSMENT OF ANXIETY AND DEPRESSION IN A COHORT OF ONE-YEAR FOLLOW-UP PATIENTS AFTER HEART TRANSPLANTATION

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# **Background**

Heart transplantation (HT) is a potentially life-saving procedure for people with terminal cardiac disease. However is also one of the more invasive and psychologically threatening of the available interventions. Rates of psychiatric morbidity of around 50% have been found in people undergoing HT, mainly depressive and anxiety disorders. Although these rates decrease in postoperative phase, around one third of HT-patients, presents psychological problems at long-term course.

#### **Purpose**

Assessment of anxiety and depression with Hospital Anxiety and Depression Scale (HADS) in a cohort of one-year follow-up patients after HT.

#### **Methods**

Assessment of 37 adult patients enrolled between 2006 and 2013 in HT program of Hospital Clinic of Barcelona. We analyzed the following variables during waiting list phase: age, sex, years of disease progression, etiology of cardiopathy, axis I disorders applying structured clinical interview for DSM-IV, HADS, and description of psychopharmacological treatment. HADS was also measured one year after HT.

# **Results**

#### **Demographic and clinical characteristics:**

On average, the 37 patients of the sample were aged  $53.65 \pm 9.77$  years. 26 were male (70.3%) and 11 female (29.7%). The mean of cardiac disease progression was  $11.11 \pm 8.15$  years. A 54.1% of patients presented an ischemic cardiomyopathy and a 21.6% a non-ischemic cardiomyopathy. The clinical characteristics of our sample are similar to the overall patient profile integrated in a HT program.

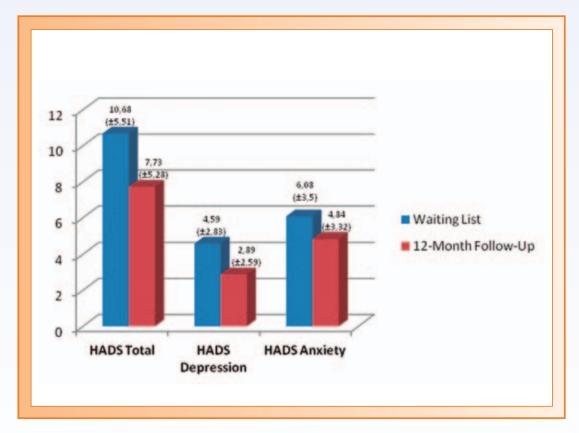
# **Psychiatric evaluation:**

Axis I diagnoses were present in a 27% of the sample (10 patients), all of them included in depressive, anxiety, sleep and adjustment disorders. All these patients were treated with psychopharmacological drugs at time of inclusion in waiting list.

<u>Waiting list period:</u> the mean score of HADS was 10.68 (SD = 5.51), with a mean score of 6.08 (SD = 3.5) in anxiety subscale and 4.59 (SD = 2.83) in depression subscale.

12-month follow-up: the mean score of HADS was 7.73 (SD = 5.28), with a mean score of 4.84 (SD = 3.32) in anxiety subscale and 2.89 (SD = 2.59) in depression subscale.

T-test showed statistically significant differences on the three scores of HADS between the two assessments.



# Conclusions

Although scores of HADS in our sample were lower than the cut-off points for the screening of psychiatric morbidity (<12 points for total score and <8 for subscales), there was a significant decrease in anxiety and depression symptoms 12 months after HT.

### References

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