# Supplementary Table. Assessment of quality of studies assessing potential risk factors for

Study	Consecutive transplant patients	Major losses to follow-up (% lost) <sup>a</sup>	Descriptions of participants lost to follow- up	Statistical comparisons of participants lost to follow-up	Adjustment for confounding in analyses of potential risk factors for PTSD
Stukas et al. 1999 [18]	Yes	Yes (13)	Yes	Yes	Yes
Dew et al. 2001a [19]	Yes	Yes (29)	Yes	Yes	N/A
Dew et al. 2012 [21]	Yes	Yes (21)	Yes	Yes	Yes
Fukunishi et al. 2002 [22]	No	No (1)	No	N/A	No
Fukunishi et al. 2001 [23]	No	-	-	-	No
Possemato et al. 2009 [24]	No	N/A	N/A	N/A	No
Cohen et al. 2014 [25]	No	No (0)	N/A	N/A	No
Jin et al. 2012 [26]	No	N/A	N/A	N/A	Yes
Guimaro et al. 2011 [27]	No	N/A	N/A	N/A	No
Possemato et al. 2010 [28]	No	Yes (13)	Yes	Yes	Yes
Baranyi et al. 2013 [29]	Yes	No (2)	No	Yes	Yes
Gries et al. 2013 [30]	No	N/A	N/A	N/A	Yes
Favaro et al. 2011 [33]	No	-	-	-	No
Rothenhäusler et al. 2002 [34]	Yes	No (7)	No	Yes	No
Bunzel et al. 2007 [35], 2008 [36]	No	N/A	N/A	N/A	No
Bunzel et al. 2005 [37]	No	N/A	N/A	N/A	No
Total/number of studies	5/21 (38%)	4/7 (57%)	4/7 (57%)	6/6 (100%)	6/16 (37%)

<u>Abbreviations (in alphabetical order)</u>: N/A = not-applicable; PTSD = posttraumatic stress disorder; - = not reported.

<sup>a</sup> Defined as loss of > 10% of study participants by first post-transplant PTSD symptom assessment.

## Supplementary Appendix A. Search strategies

## PubMed

(mental disorders[MeSH Terms] OR depress\*[Text Word] OR anxi\*[Text Word] OR stress[Text Word]) AND (transplants[MeSH Terms] OR transplantation[MeSH Terms]) AND English[Language] NOT review[pt]

## PsycInfo

(((DE mental disorders) OR (TX "depress" OR "stress" OR "anxi\*")) AND ((DE transplants OR transplantation)) AND (LA English) NOT (PZ Review))

## CINAHL Plus

(MH(mental disorders, chronic OR neurotic disorders) OR TX ("depress" OR "stress" OR "anxi\*")) AND (MH(transplants OR transplantation)) AND LA(English)

## Cochrane Library

(mental disorders(MeSH) OR depress\* OR stress OR anxi\*) AND (transplants(MeSH) OR transplantation(MeSH))

### Supplementary Appendix B. Journals whose online contents were searched

American Journal of Psychiatry American Journal of Transplantation Annals of Transplantation British Journal of Psychiatry Clinical Transplantation General Hospital Psychiatry *Liver Transplantation* JAMA Psychiatry (Archives of General Psychiatry) Journal of Heart and Lung Transplantation Journal of Psychosomatic Research Nephrology Dialysis Transplantation Psychological Medicine Psychosomatic Medicine **Psychosomatics** Psychotherapy and Psychosomatics **Transplantation** Transplant International Transplantation Proceedings

### Supplementary Appendix C. Data abstraction tool

### POST-TRANSPLANT PSYCHIATRIC OUTCOMES REVIEW DATA ABSTRACTION FORM

**Study Title: Authors**:

Journal:

Country conducted:

Study Type (e.g., prospective cohort, cross-sectional):

N enrolled:

Follow-up period (Months):

Inclusion Criteria:

**Exclusion Criteria**:

Consecutive Transplant Admissions (Y/N):

Sex:

Age (Mean, SD):

**Race/Ethnicity**:

**Education**:

Marital/Partner Status:

Medical Comorbidity (e.g., Charlson score [Mean, SD], Elixhauser or other list of comorbid medical diagnoses):

Pre-Transplant Psychiatric/Substance Abuse Prevalence (N, %)

Depression:

Anxiety (includes PTSD and other anxiety disorders):

Bipolar disorder:

Schizophrenia:

Other axis I:

Alcohol abuse/dependence:

Drug abuse/dependence:

#### Method of Pre-Transplant Psychiatric/Substance Abuse Ascertainment:

#### **Pre-Transplant Cognitive Function**

Cognitive impairment diagnosis (e.g., dementia, delirium, encephalopathy):

Screening measure (e.g., MMSE):

Neuropsychological testing:

#### **Pre-Transplant ADL/IADL Impairments:**

#### **Pre-Transplant HRQOL**:

SF-36 PCS: MCS: PF: PF: RP: BP: GH: V: SF: SF: RE: MH: SIP Physical Component Score: Psychosocial Component Score: EQ-5D:

### Time on Transplant Wait List (Years, Months, Days; Mean, SD):

**Etiology of organ failure (N, %)**:

#### Hospital LOS (Mean, SD OR Median, IQR, Absolute Range):

ICU LOS (Mean, SD OR Median, IQR, Absolute Range):

Duration of Mechanical Ventilation (Mean, SD OR Median, IQR, Absolute Range):

ECMO:

Delirium (How assessed; N & Prevalence):

In-hospital benzodiazepines (dose and duration):

In-hospital opioids (dose and duration):

**Psychiatry consult (Y/N):** 

**Other In-Hospital Transplant-Related Clinical Characteristics:** 

Anti-Rejection Regimen (Duration and dose)

Corticosteroids:

Tacrolimus (FK506):

Sirolimus (Rapamycin):

Other:

Loss to follow-up (N[%]):

**Description of patients lost to follow-up:** 

#### Statistical comparison of patients lost to follow-up:

#### **Post-Transplant Psychiatry Morbidity**

Depression (Method assessed/N(%)):

General anxiety symptoms (Method assessed/N(%)):

PTSD/ASD (Method assessed/N(%)):

Other:

#### **Post-Transplant Cognitive Function**

Cognitive impairment diagnosis (e.g., dementia, delirium, encephalopathy):

Screening measure (e.g., MMSE):

Neuropsychological testing:

## **Post-Transplant ADL/IADL Impairments:**

### **Post-Transplant HRQOL**:

SF-36 PCS: MCS: PF: RP: BP: GH: V: SF: RE: MH: SIP

Physical Component Score:

Psychosocial Component Score:

EQ-5D:

Post-Transplant Mortality (N/%): Post-Transplant Organ Rejection (N/%):

**Post-Transplant Medication Non-Compliance**:

**Other Post-Transplant Outcomes:** 

### **Statistical Analysis Methods**

Analytic methods:

Adjustment for confounding:

Risk Factors for Post-Transplant Psych Outcomes (Point estimate, P value):