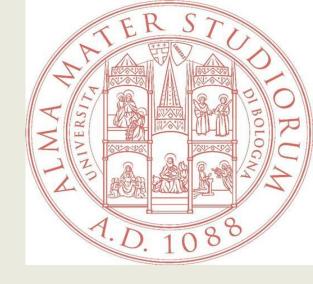
SOCIDEMOGRAPHIC AND CLINICAL PREDICTORS OF REMISSION AND RESPONSE IN TREATMENT RESISTANT DEPRESSION



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INTRODUCTION

Background: Treatment Resistant Depression (TRD) still characterizes a large portion of Major Depressive Disorder (MDD) patients. However, different TRD definitions have been suggested: from the lack of response to 1 antidepressant (AD), to the lack of response to 2 or more AD of different classes. Several studies attempted to identify predictors of treatment non remission/response to a single AD, but multiple treatment failures in the same episode have been poorly investigated. In a previous retrospective study, we identified some clinical features associated with non response to 2 consecutive adequate ADs: anxiety comorbidity, in particular panic disorder and social phobia, personality disorder, suicidal risk, severity, melancholia, number of hospitalization >1, recurrent episodes, early age at onset, non response to the first AD received lifetime (1).

RESULTS

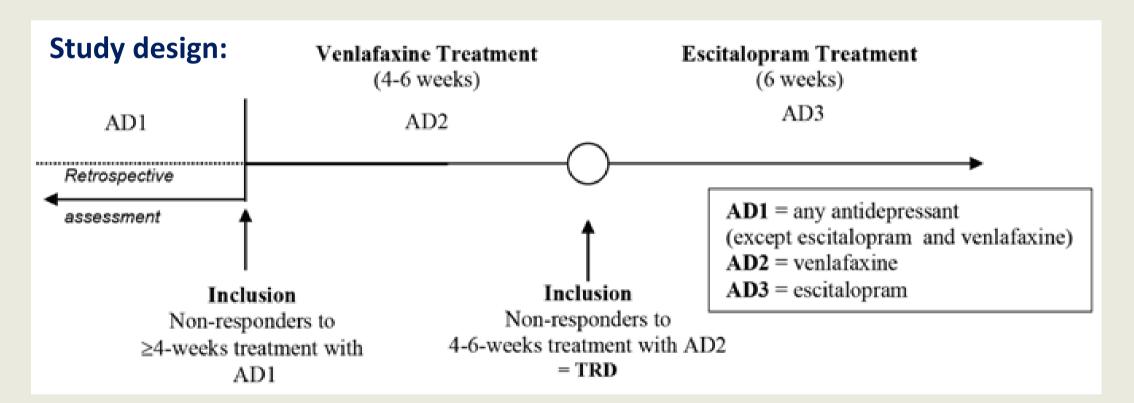
PREDICTORS OF	Rem	Non Rem	Total	Statistics				
REMISSION IN TRD	n=39, 22.94%	n=131, 77.06%	n= 170					
	Mean±SD/n(%)	Mean±SD/n(%)	Mean±SD/n(%)	t/chi²	d.f.	р		
Age last episode (n=124)	36.39±12.32	42.15±12.18	40.62±12.44	2.32	122	0.02		
Duration current episode (days) (n=142)	77.14±48.57	195.66±213.24	166.45±193.34	0.142	140	0.001		
Severity of current episode (n=165)								
Severe (with/without psych features)	17 (43.59)	82 (65.08)	99 (60.00)	0.259 1 0.001		0.001		
Moderate	22 (56.41)	44 (34.92)	66 (40.00)					
Suicidal risk (yes/no)	14 (35.90)	72 (54.96)	86 (50.59)	0.192	1	0.003		
Suicidal risk level (n=86)								
High	6 (42.85)	7 (9.72)	13 (15.12)		2			
Medium	2 (14.29)	37 (51.39)	39 (45.35)	0.508		0.002		
Low	6 (42.86)	28 (38.89)	34 (39.53)					
CGI severity (baseline) (n=154)	4.41±0.86	4.90±0.83	4.77±0.87	0.132	152	0.002		
MADRS (baseline)*	25.66±5.92	31.06±7.91	29.82±7.82	0.19	168	0.0001		
Anxiety disorders (no OCD) *	3 (7.69)	37 (28.24)	40 (23.53)	7.5	1	0.01		
Panic disorder lifetime	0 (0.00)	17 (12.98)	17 (10.00)	5.62	1	0.02		
Panic disorder current	0 (0.00)	12 (9.16)	12 (7.06)	3.84	1	0.05		
GAD current	2 (5.13)	25 (19.08)	27 (15.88)	4.38	1	0.04		
Psychiatric Antecedents								
BP (2°) (n=113)	2 (6.90)	0 (0.00)	2 (1.11)	5.89	1	0.01		
Escitalopram doses								
day 56	20.76±2.70	22.60±4.40	22.18±3.14	2.45	168	0.02		
day 84 (n=157)	24.87±5.06	26.94±4.62	26.43±4.81	2.37	155	0.02		

AIMs

Primary aim: to detect <u>sociodemographic and clinical predictors of non remission</u> in a sample of <u>TRD</u> patients who failed to respond to at least two ADs (adequacy in terms of dose and duration).

Secondary aims: to detect: 1) predictors of non response in TRD; 2) predictors of non remission/response in patients who failed to respond to at least one previous adequate AD treatment; 3) differences in socio-demographic and clinical features between early responders and non responders.

METHODS



Sample: in the context of a European multicenter project carried out by the Group for the Study of Resistant Depression (GSRD), <u>407 MDD pts</u> (male: 139, 34.15%, mean age: 45.30±12.67) were prospectively assessed. <u>170 non responder pts</u> (<u>TRD</u>) (male: 69, 40.59%, mean age: 45.30±12.67) received escitalopram.

<u>Inclusion criteria</u>: 1) Moderate or severe Current Major Depressive Episode (DSM-IV-TR criteria); 2) MADRS total score ≥22

Table: Variables associated with non remission in TRD (primary aim). * variables found to be associated with non remission also in multiple regression. Results for secondary aims were resumed below.

	PROSPECTIVE			PREVIOUS RETROSPECTIVE
	STUDY	ESCITALOPRAM		STUDY (1)
VENLAGE Non rem •↑ Current suid •↑ MDD 1/2 de antecedents •↑ Other psych •↓ BDZ use (Dat •↑ CGI severity •↑ Dose (Day 1 <u>Non res</u> •↑ Occupationa •↑ Occupationa •↑ Other psych •↓ BDZ use (Dat •↑ Other psych •↓ BDZ use (Dat •↑ Other psych	nission idal risk level gree psych antecedents y 0) (Day 14, 42) (Day 0) 4, 28, 42) ponse al status idal risk level antecedents y 0) (Day 14, 42) (A antecedents y 0) (Day 14, 42) (A antecedents) (A antecedents (A antecedents) (A antecede	 Non remission Duration current episode Age last episode Severity current episode Current suicide risk Current suicidal risk level Current anxiety disorder Current anxiety disorder Current Panic disorder lifetime d current PAD current BP 2nd degree antecedents Quality of life (work, amily) CGI severity (Day 42) MADRS score (Day 42) Dose (Day 56, 84) Non response Duration current episode Side effects (Day 84) 	• 1 • 1 • 1 • 1 • 1 • 1 • 1 • 1 • 1 • 1	Treatment resistance SAME FACTORS: Severity current episode Current suicide risk Current anxiety disorder OCD) Panic disorder DIFFERENT FACTORS: N° hospitalization Social phobia Recurrent vs single episodes Onset before 18 years Velancholic features Non response to first AD eatment lifetime Personality disorder

Exclusion criteria: 1) Any current psychiatric disorder other than MDD as a principal diagnosis; 2) not allowed treatments: higher benzodiazepine doses within the last week, antipsychotics, mood stabilizers, ECT within the past 6 months, formal psychotherapies started in the month preceding inclusion.

Evaluation Instruments:

✓ MINI, MADRS, HRSD, CGI-S and CGI-I scales: administered from baseline to week 12.

 ✓ Other information, such as socio-demographic features, psychiatric antecedents and previous treatments: collected at baseline.

Statistical Analyses: chi-square and t-test to evaluate impact of the investigated variables on remission and response in both TRD and MDD not responding to at least one previous AD trial.

✓ **First step**: all variables were considered (p=0.05).

✓ Second step: identification of the correlated variables among the significant ones (correlation matrix).

✓ Third step: multiple regression.

REFERENCE: 1. Souery, D., et al., Clinical factors associated with treatment resistance in major depressive disorder: results from European multicenter study. J Clin Psychiatry, 2007. 68(7): p. 1062-70

CONCLUSION

Severity of the current episode (probably associated with higher AD doses and consequently side effects), current suicidal risk and comorbid anxiety disorders (panic disorder, in particular) seemed to predict non remission/non response in two sample of TRD patients, prospectively and retrospectively followed. When present, these predictors could guide clinicians to the choice of more appropriate therapies. The lack of a relationship between anxiety disorders and MDD not responding to at least 1 adequate AD treatment deserve a deeper investigation.

Limitations: design issue (open nature, retrospective assessment of the first AD).

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