

4th International Congress on Borderline Personality Disorder and Allied Disorders. Bridging the Gap - from Basic Science to Treatment Implementation. 8 – 10 September 2016. Vienna, Austria

Prospective long-term course of Borderline Personality Disorder in adulthood: A systematic review

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LONG-TERM REMISSION OF BPD

- BPD diagnosis tends towards remission over time. (Biskin, 2015; Zanarini, 2012)
- Main prospective studies (MSAD, CLPS) carried out in US population. Recent studies in other countries provided data for generalization of findings.
- Long-term follow-up data in clinical studies:
 Treatment response vs. natural remission (Paris, 2002)

Biskin, R. S. (2015). The Lifetime Course of Borderline Personality Disorder. *Canadian Journal of Psychiatry*, 60(7), 303–308.

Paris, J. (2002) Implications of long-term outcome research for the management of patients with borderline personality disorder. *Harv Rev Psychiatry*, 10(6), 315–323.

Zanarini, M. C. (2012). Diagnostic specificity and long-term prospective course of borderline personality disorder. *Psychiatric Annals*, *42*(2), 53–58.

QUESTIONS

 What is the long-term course of BPD diagnostic remission in adulthood?

 Is the initial treatment related to long-term BPD remission rates?

Overall hours of formal therapy

= No of therapy sessions per month

* hours per session * months in treatment

SEARCH STRATEGY& INCLUSION CRITERIA

- Medline, PsycINFO and Scopus
- Between 1990 and 2015.

Inclusion criteria:

- Adult BPD sample, diagnosed by semistructured interview
- 2. BPD diagnosis at baseline and at least at one follow-up assessment
- 3. 5 years or more of follow-up

SELECTION OF STUDIES

Cumulative remission rate: % *n*-period of remission over time of follow-up, by cumulative survival analyses (CLPS/MSAD, except at 6y)

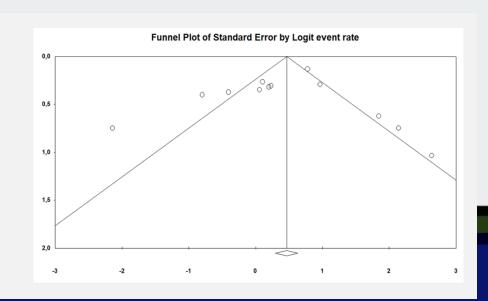
Remission rate: % remission at an specific time point

- BPD diagnostic criteria: DSM-III /DSM-III-R/ DSM-IV
- Semistructured interviews: DIB / SCID / IPDE

No publication bias

Egger's test:

$$t = 0.61$$
, $df = 10$, $p = .56$



Long-term BPD remission

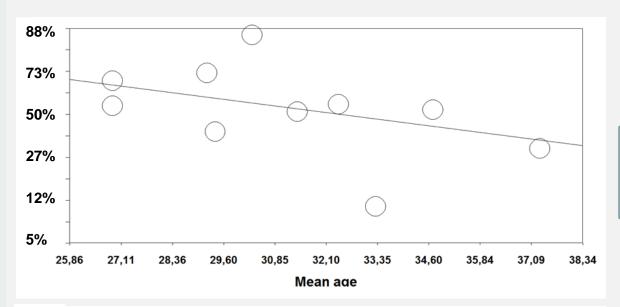
Study name_	Subgroup within study	Statistics for each study				Event rate and 95% CI
		Ev ent rate	Lower limit	Upper limit	p-Value	
Conversational Model Therapy Trial	Specialized Therapy	0,40	0,24	0,58	0,28	-■+
Mentalization-based Trial	Specialized Therapy	0,86	0,65	0,96	0,00	
Mentalization-based Trial	TAU	0,11	0,03	0,34	0,00	 -
Boscot Trial	Specialized Therapy	0,56	0,41	0,70	0,45	- ■-
Boscot Trial	TAU	0,52	0,35	0,68	0,86	—
Ullevål Trial	Specialized Therapy	0,89	0,66	0,97	0,00	—
Ullevål Trial	TAU	0,93	0,65	0,99	0,01	-
McMaster University Study	No exp treatment	0,53	0,40	0,65	0,69	-
MSAD Study	No exp treatment	0,69	0,63	0,74	0,00	=
Vaanta Primary Care Depression Study (PD-VDS)	No exp treatment	0,31	0,17	0,50	0,05	-■
Barcelona Study	No exp treatment	0,55	0,40	0,69	0,53	→
Germany Study	No exp treatment	0,72	0,60	0,82	0,00	-■-
		0,59	0,48	0,69	0,13	
						0,00 0,50

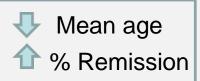
Mean Remission rate: 59% (48% - 69%)

High heterogeneity: Q = 54.9, p < .001

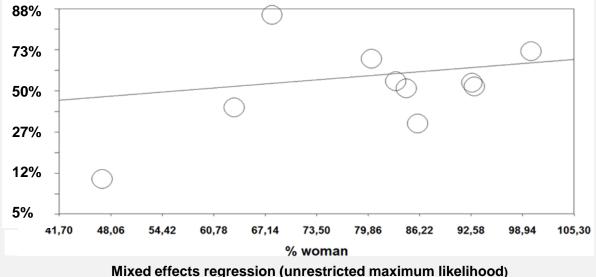
 $l^2 = 80\%$ (> 75%)

General moderators: Age & Gender





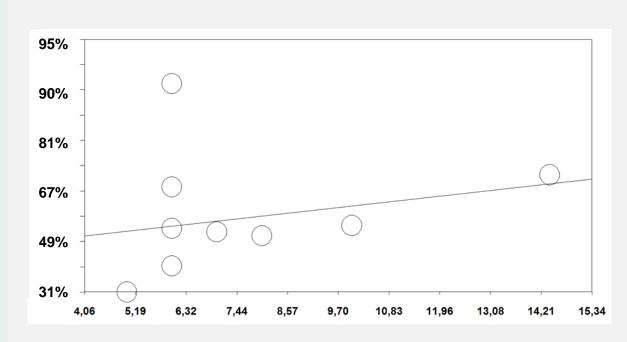
$$Q = 5.36$$
, $p = .02$





$$Q = 2.86$$
, $p = .09$

General moderators: Time of Follow-up

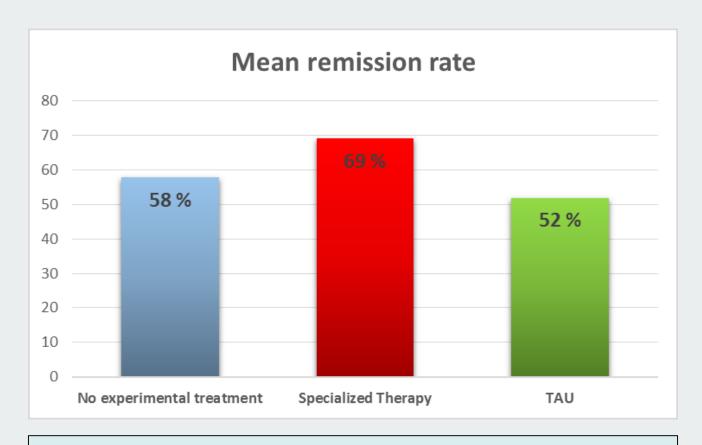


↑ % Remission

Q = 1.11, p = .29

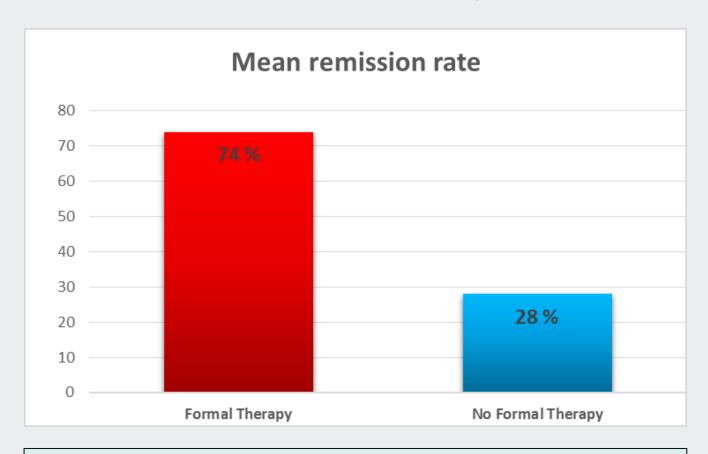
Mixed effects regression (unrestricted maximum likelihood)

Treatment moderators: Type of experimental Treatment



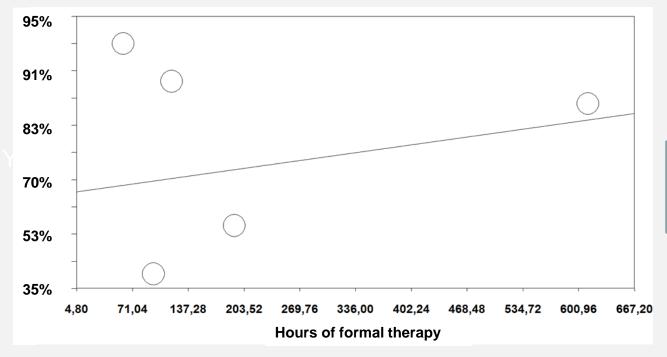
Differences between treatment groups: Q = 0.76, p = .69

Treatment moderators: Formal Therapy



Differences between treatment groups: Q = 2.7, p = .10

Treatment moderators: Hours of Formal Therapy



Q = 0.41 p = .52

Mixed effects regression (unrestricted maximum likelihood)

CONCLUSIONS: NATURAL COURSE

- Over a half of patients with BPD diagnosis may achieve remission in the long term.
- A diagnosis of BPD at a younger age is associated with higher long-term remission rates
- Female gender might be related to better clinical outcome
- **Time of follow-up** seems not related to remission after 5 years or more of illness.

CONCLUSIONS: TREATMENT

- Specialized therapies seem not to improve the longterm clinical outcome, compared to treatment as usual or the natural course of the disorder.
- Receiving any kind of formal therapy might be associated with higher percentages of remission in the long term.
- The intensity and length of formal therapy received appears not to be crucial in reaching a better outcome in the long term.

LIMITATIONS & RESEARCH SUGGESTIONS

- Limited number of studies and small size of BPD samples in the majority of studies reduce the statistical power and might compromise the study of moderators
- Further research focused on the long-term outcome of treatment interventions is strongly recommended.
- Longitudinal studies in untreated samples may contribute to describe the natural course of BPD.