# Ten-Year Course of Borderline Personality Disorder

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### Borderline Personality Disorder (BPD) Is Now Seen as a Valid Disorder

- According to the criteria of Robins and Guze (1970)
  - It can be delimited from other psychiatric disorders
  - Something of its etiology (both environmental and biological) is known
  - > It "runs" in families
  - It has a complex but increasingly known course

### Borderline Personality Disorder Is Now Recognized as a Common Disorder

- ► 1.8% of American adults meet criteria for BPD (range 1.6-5.9%)
- About as common as bipolar I disorder
- More common than schizophrenia

## Continuum of Borderline Psychopathology

- Some people with BPD recover spontaneously and are never patients
- Some use nonintensive outpatient treatment and are never hospitalized
- Others become severely ill and use large amounts of mental health services, including repeated inpatient stays

## Continuum of Borderline Psychopathology (cont.)

- The latter group has defined BPD for generations of clinicians
- Until very recently, most research studies have focused on inpatient-level patients
- This presentation deals with this type of severely ill patient

### McLean Study of Adult Development (MSAD)

- First NIMH-funded prospective study of the longitudinal course of BPD
- 362 McLean inpatients assessed at baseline
- ▶ 8 waves of blind follow-up are complete: 2, 4, 6, 8, 10, 12, 14, and 16-year data
- 18-year wave began in July of 2010
- 20-year wave began in July of 2012

#### Subjects

▶ 290 patients meeting DIB-R and DSM-III-R criteria for BPD

► 72 axis II comparison subjects meeting DSM-III-R criteria for another personality disorder (but neither study criteria set for BPD)

#### DIB-R: Sectors of Psychopathology

- Dysphoric affect
- Disturbed cognition
- Impulsive behaviors
- Troubled relationships

## DIB-R: Definition of Borderline Personality Disorder

- Symptoms in each of these 4 domains of borderline psychopathology must be present at the same time
- Results in a somewhat smaller and more homogeneous group of patients than DSM criteria

### Earlier Studies of Course of Borderline Personality Disorder

- ▶ 17 small-scale, prospective studies of the shortterm course of BPD
  - Patients with BPD do poorly in the short-run
- 4 large-scale, follow-back studies of the long-term course of BPD
  - McGlashan: Chestnut Lodge
  - Stone: New York State Psychiatric Institute
  - Paris: Jewish General Hospital in Montreal
  - Plakun: Austin Riggs
  - > Patients with BPD do substantially better in the long-run

#### **Limitations of Earlier Studies**

- Use of chart review or clinical interviews to diagnose BPD
- No comparison group or the use of less than optimal comparison subjects
- Reliance on small size samples with high attrition rates

#### Limitations of Earlier Studies (cont.)

- Only very basic data collected at baseline and follow-up
- Typically, only 1 postbaseline reassessment
- Nonblind postbaseline assessments
- Variable number of years of follow-up in the same study

### MSAD Subject Retention at 10-year Follow-up

- ▶ 92% of surviving patients with BPD still participating
- ► 85% of surviving axis II comparison subjects still participating

#### Time-to-Symptomatic Remission\*

2-Year	4-Year	6-Year	8-Year	10-Year
Follow-Up	Follow-Up	Follow-Up	Follow-Up	Follow-Up
%	%	%	%	%
34.9	55.2	75.6	87.6	93.0

<sup>\*</sup>Remission defined as no longer meeting either criteria set for BPD (DIB-R and DSM-III-R) for two years. Adapted from: Zanarini MC, et al. *Am J Psychiatry*. 2010;167:663-667.

## Time-to-Sustained Symptomatic Remission\*

4-Year Follow-Up	6-Year Follow-Up	8-Year Follow-Up	10-Year Follow-Up
%	%	%	%
29.6	46.9	67.1	86.0

Adapted from: Zanarini MC, et al. Am J Psychiatry. 2010;167:663-667.

<sup>\*</sup>Sustained remission defined as no longer meeting either criteria set for BPD (DIB-R and DSM-III-R) for four years.

#### Time-to-Symptomatic Recurrence\*

2 years after 1 <sup>st</sup> remission	after 4 years after 6 years after 1st remission 1st remission		8 years after 1 <sup>st</sup> remission	
%	%	%	%	
16.5	22.4	27.4	29.5	

Adapted from: Zanarini MC, et al. Am J Psychiatry. 2010;167:663-667.

<sup>\*</sup>Recurrence defined as meeting the study criteria for BPD for two years after meeting the criteria for remission in a previous follow-up period.

#### Time-to-Loss of Sustained Remission\*

2 years after 1 <sup>st</sup> remission	4 years after 1 <sup>st</sup> remission	6 years after 1 <sup>st</sup> remission	
%	%	%	
6.9	12.8	15.4	

<sup>\*</sup>Loss of sustained remission defined as meeting the study criteria for BPD for two years after meeting the criteria for sustained remission in a previous follow-up period.

Adapted from: Zanarini MC, et al. *Am J Psychiatry*. 2010;167:663-667.

#### **Completed Suicide**

2-Year	4-Year	6-Year	8-Year	10-Year	Total
Follow-Up	Follow-Up	Follow-Up	Follow-Up	Follow-Up	Follow-Up
%	%	%	%	%	%
1.7	1.4	0.7	_	0.3	4.1
(N=5)	(N=4)	(N=2)		(N=1)	(N=12)

## Complex Model of Borderline Psychopathology

- Hyperbolic temperament is the outward "face" of the neurobiological dimensions that underlie borderline psychopathology
- After "kindling" of some kind, acute and temperamental symptoms develop

#### **Acute Symptoms**

- Resolve relatively quickly
- Are the best markers for the disorder
- Are often the main reason for expensive forms of psychiatric care, such as inpatient stays
- Are akin to the positive symptoms of schizophrenia

#### **Temperamental Symptoms**

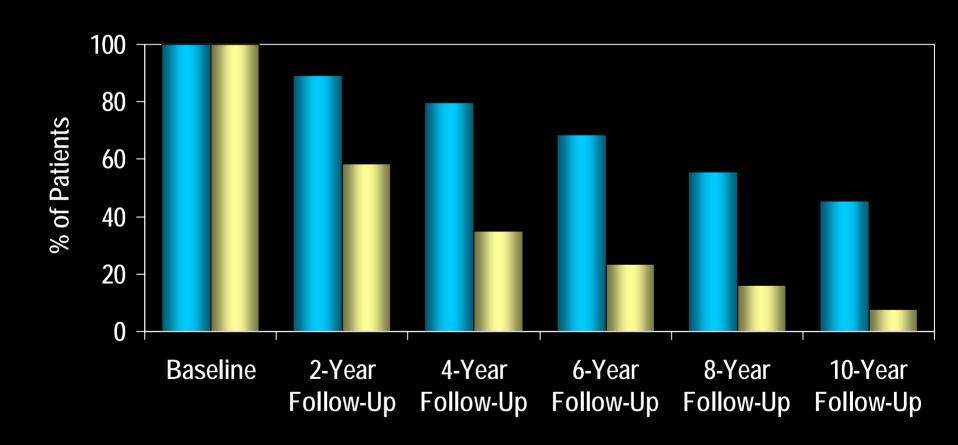
- Resolve relatively slowly
- Are not specific to BPD
- Are associated with ongoing psychosocial impairment
- Are akin to the negative symptoms of schizophrenia

#### **Examples of Symptoms**

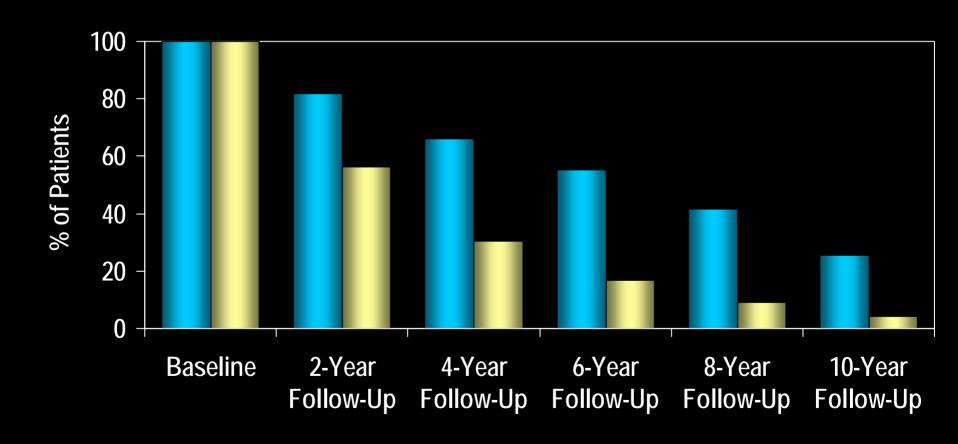
- Acute symptoms: self-mutilation, suicide efforts, quasi-psychotic thoughts
- ► Temperamental symptoms: angry feelings and acts, distrust and suspiciousness, abandonment concerns

Adapted from: Zanarini MC, et al. Am J Psychiatry. 2007;164:929-935.

### Time-to-Remission of Chronic Anger and Self-mutilation



### Time-to-Remission of Intolerance of Aloneness and Suicide Efforts



#### **Course of 24 BPD Symptoms Studied**

- Using two different methods of defining acute and temperamental symptoms among borderline patients
  - > 12 symptoms were found to be acute in nature
  - And 12 symptoms were found to be temperamental in nature

#### **Acute Symptoms I**

- Affective Symptoms
  - Affective instability
- Cognitive Symptoms
  - Quasi psychotic thought
  - Serious identity disturbance
- Impulsive Symptoms
  - Substance abuse
  - Promiscuity
  - > Self-mutilation
  - Suicide efforts

#### **Acute Symptoms II**

- Interpersonal Symptoms
  - Stormy relationships
  - Devaluation/manipulation/sadism
  - Demandingness/entitlement
  - Serious treatment regressions
  - Countertransference problems/"special" treatment relationships

#### **Temperamental Symptoms I**

- Affective Symptoms
  - Depression
  - Helplessness/hopelessness/worthlessness
  - > Anger
  - Anxiety
  - Loneliness/emptiness
- Cognitive Symptoms
  - Odd thought (e.g., overvalued ideas)/unusual perceptual experiences (e.g., depersonalization)
  - Nondelusional paranoia

#### Temperamental Symptoms II

- Impulsive Symptoms
  - Other forms of impulsivity (e.g., eating binges, spending sprees, reckless driving)
- Interpersonal Symptoms
  - Intolerance of aloneness
  - Abandonment/engulfment/annihilation concerns
  - Counterdependency
  - Undue dependency/masochism

#### Symptoms That Resolve Most Rapidly

- Those reflecting core areas of impulsivity (e.g., self-mutilation, suicide efforts)
- Active attempts to manage interpersonal difficulties (e.g., stormy relationships, devaluation/manipulation/sadism)

Adapted from: Zanarini MC, et al. Am J Psychiatry. 2007;164:929-935.

#### **Most Stable Symptoms**

- Affective symptoms reflecting areas of chronic dysphoria (e.g., anger, loneliness/emptiness)
- Interpersonal symptoms reflecting abandonment and dependency issues (e.g., intolerance of aloneness, counterdependency problems)

### Clinical Implications of Symptomatic Findings I

- There are five empirically-based comprehensive forms of therapy for BPD
  - Dialectical Behavioral Therapy (DBT): Linehan
  - Mentalization-based Treatment (MBT): Bateman and Fonagy
  - Transference-focused Psychotherapy (TFP): Kernberg
  - Schema-focused Therapy (SFT): Young
  - General Psychiatric Management (GPM): McMain and Links

Adapted from: Zanarini MC, et al. Am J Psychiatry. 2007;164:929-935.

### Clinical Implications of Symptomatic Findings II

- All five of these treatments are aimed at acute symptoms
- Treatments aimed at temperamental symptoms need to be developed

Adapted from: Zanarini MC, et al. Am J Psychiatry. 2007;164:929-935.

### Broadly-defined Good Psychosocial Functioning

- ➤ 78% of patients with BPD attain or maintain broadly-defined good psychosocial functioning over the course of 10 years of prospective follow-up
  - This goal is defined as at least 1 emotionally sustaining relationship with a friend or romantic partner and
  - Both a good vocational performance and a sustained vocational history

### Narrowly-defined Good Psychosocial Functioning

- ► 64% of patients with BPD attain or maintain narrowly-defined good psychosocial functioning over the course of 10 years of prospective follow-up
  - This goal is defined as at least 1 emotionally sustaining relationship with a friend or romantic partner and
  - A good vocational performance, a sustained vocational history, and full-time vocational engagement

## Stability of Good Psychosocial Functioning Over Time

Broadly-defined good psychosocial functioning is more stable than narrowly-defined good psychosocial functioning

# Sectors of Good Psychosocial Functioning Over Time

Almost all failures to attain or actual losses of narrowly-defined good psychosocial functioning were due to problems in the vocational and not the social realm

# Psychosocial Functioning of Axis II Comparison Subjects

- 93% maintained or attained broadly-defined good psychosocial functioning
- 92% maintained or attained narrowly-defined good psychosocial functioning

## Clinical Implications of Psychosocial Findings

Rehabilitation model might be useful for those who cannot work or go to school full-time in an effective and consistent manner

## Collaborative Longitudinal Personality Disorders Study (CLPS)

Also NIMH-funded

Now finished after following subjects for 10 years

Basically the same symptomatic and psychosocial findings

Adapted from: Gunderson JG, et al. Arch Gen Psychiatry. 2011;68:827-837.

#### **Recovery from BPD**

Recovery is defined as having a concurrent remission from BPD and narrowly-defined good psychosocial functioning

### Time-to-Recovery from BPD\*

2-Year	4-Year	6-Year	8-Year	10-Year
Follow-Up	Follow-Up	Follow-Up	Follow-Up	Follow-Up
%	%	%	%	%
14.3	26.8	36.0	42.8	50.3

Adapted from: Zanarini MC, et al. Am J Psychiatry. 2010;167:663-667.

<sup>\*</sup>Recovery from BPD defined as concurrent remission from BPD and narrowly-defined good psychosocial functioning.

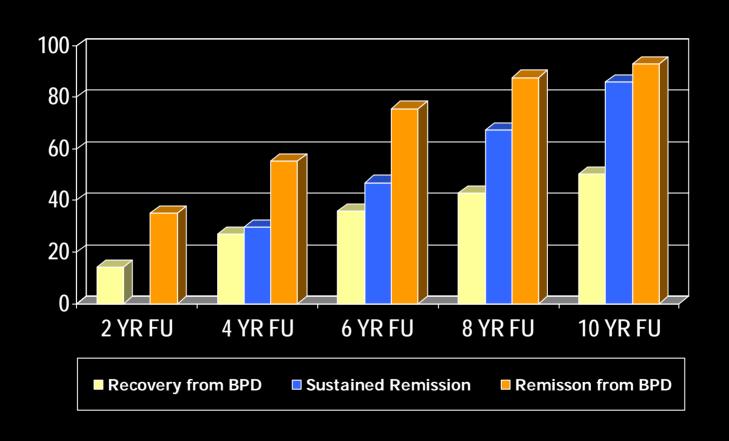
### Time-to-Loss of Recovery from BPD\*

2 years after 1 <sup>st</sup> remission	4 years after 1 <sup>st</sup> remission	6 years after 1 <sup>st</sup> remission	8 years after 1 <sup>st</sup> remission
%	%	%	%
12.6	19.8	28.7	33.6

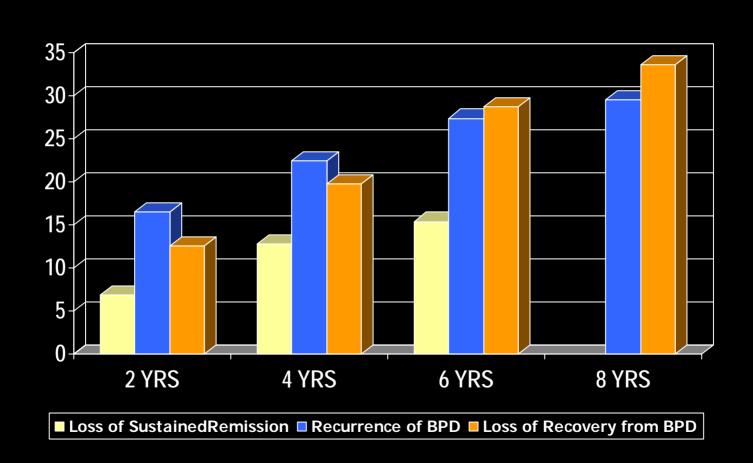
Adapted from: Zanarini MC, et al. Am J Psychiatry. 2010;167:663-667.

<sup>\*</sup>Loss of recovery from BPD defined as meeting the study criteria for BPD for two years after meeting the criteria for remission in a previous follow-up period and/or loss of one of the four elements of narrowly-defined good psychosocial functioning.

### Time-to Remission, Sustained Remission, and Recovery From BPD



### Time-to-Loss of Remission, Sustained Remission, and Recovery from BPD



### Predictors of Time to Remission from Borderline Personality Disorder

- 7 factors found to predict earlier time to remission
  - > Younger age
  - Good vocational record
  - No history of childhood sexual abuse
  - No family history of substance abuse
  - Absence of an anxious cluster personality disorder
  - High agreeableness
  - Low neuroticism

#### **Nature of These Predictors**

- 4 factors commonly assessed in clinical practice
  - > Younger age-demographics
  - Good vocational record—psychosocial functioning
  - No history of childhood sexual abuse—adverse childhood events
  - No family history of substance abuse–family history of psychiatric disorder

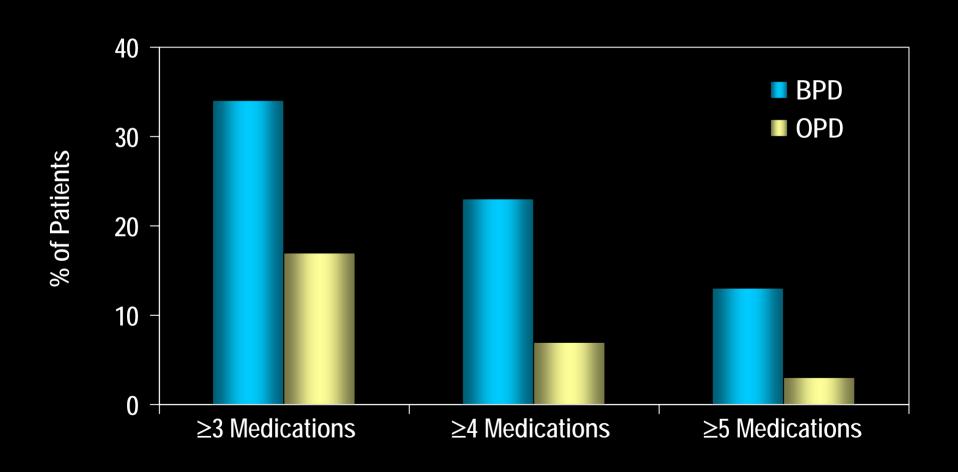
#### Nature of These Predictors (cont.)

- 3 factors commonly noticed but rarely discussed in clinical practice
- All 3 are aspects of temperament
  - Absence of anxious cluster PD–low levels of shyness and undue dependency
  - ► High agreeableness—not particularly argumentative or manipulative
  - Low neuroticism—does not typically feel inferior or ashamed

#### **Psychiatric Treatment**

- Mostly treated in community
- Over 70% of patients with BPD are in individual therapy and taking standing medications during all 5 follow-up periods
- However, rate of psychiatric hospitalization declined from 79% at baseline to 29% at 10-year follow-up

### Polypharmacy at 10-Year Follow-Up



## Polypharmacy and Borderline Personality Disorder

- No empirical evidence for its efficacy
- Associated with high rates of obesity
- Which, in turn, is associated with elevated rates of
  - ▶ Osteoarthritis
  - Diabetes
  - Hypertension
  - Chronic back pain
  - Urinary incontinence
  - Gastroesophageal reflux disorder
  - ▶ Gallstones

#### Main Findings

- ► 93% of patients with BPD experience a remission of their BPD
- Recurrences of BPD are relatively rare
- The course of BPD is very different from that of mood disorders where remission occurs more rapidly but recurrences are more common

- Completed suicide is substantially less common than the expected 10%
- This may be due to more traumasensitive or supportive treatments

- BPD seems to be comprised of two types of symptoms
  - >Acute symptoms
  - > Temperamental symptoms

- Almost 80% of patients with BPD attain broadly-defined good psychosocial functioning
- But only 64% attain narrowly-defined good psychosocial functioning
- Social functioning is less impaired than vocational functioning

- Recovery from BPD is more difficult to attain than remission from BPD alone
- However, it is relatively stable once attained

- Prediction of time to remission is multifactorial in nature
  - Involves factors that are routinely assessed in treatment
  - And other factors, particularly aspects of temperament, that are not

#### Conclusions

► Taken together, the results of this study suggest that the prognosis for most, but not all, patients with BPD is better than previously recognized