

Abnormal Psychology - Annette Hillers-Chen

Spring Semester 2018

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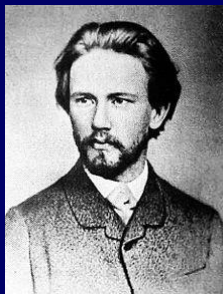
Office hours: Mon 10-11h



5. Mood disorders

Motivation (1)

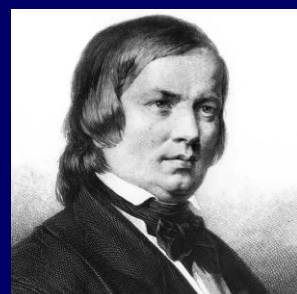
“melancholia”



Pyotr Il'yich
Tchaikovsky



Ludwig van
Beethoven

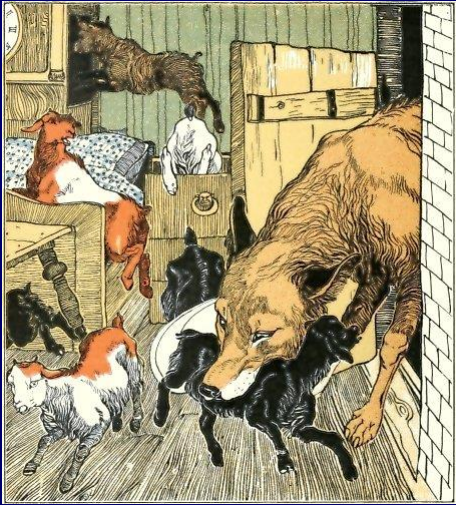


Robert Alexander
Schumann

Motivation (2)



Wilhelm Grimm (left)
1786-1859



Robert Schumann's works across lifetime







From: Daverio, J. (1997) Robert Schumann: A Herald of a "New Poetic Age." New York: Oxford University Press.



Andreas Lubitz

(1987-2015)

A portrait of Andreas Lubitz, a man with short brown hair, wearing a dark baseball cap and a dark jacket, smiling. The background is a scenic view of a mountain range with green valleys and blue skies.



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6

Example: Mary

A portrait of Mary, a woman with long, curly blonde hair, wearing a dark jacket over a light-colored shirt, smiling. The background is a plain, light-colored wall.



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7

“Depression”



- Mostly used for what is called a “Major Depressive Disorder (MDD)”, sometimes also called “unipolar depression”.
- Sometimes used for “Major Depressive Episode (MDE)”
- A person diagnosed with MDD had at least one MDE, but not vice versa.
- A MDE is also a constituent of Bipolar I and Bipolar II disorder.
- For MDD, there has never been a reasonably long manic or hypo-manic time in a person’s life.

Depressive disorders in DSM-5



- Disruptive mood dysregulation disorder (age 6-18 only)
- Major Depressive Disorder (MDD)
- Persistent depressive disorder (dysthymia)
- Premenstrual dysphoric disorder
- Substance/Medication-induced depressive disorder
- Depressive disorder due to another medical condition
- Other specified/unspecified depressive disorder

Major Depressive Disorder



- A. Presence of 5 symptoms for at least 2 weeks, one of them depressed mood or loss of interest/
- B. Distress/impairment
- C. Exclusion of substance/medical condition
- D. Exclusion of schizophrenia spectrum disorders
- E. Exclusion of prior (hypo-)manic episodes

Specifiers

- Severity: mild, moderate, severe
- Course: chronic, in full/partial remission
- Characteristics:
 - With anxious distress (p. 184)
 - With mixed features (pp. 184–185)
 - With melancholic features (p. 185)
 - With atypical features (pp. 185–186)
 - With mood-congruent psychotic features (p. 186)
 - With mood-incongruent psychotic features (p. 186)
 - With catatonia (p. 186). **Coding note:** Use additional code 293.89
 - With peripartum onset (pp. 186–187)
 - With seasonal pattern (recurrent episode only) (pp. 187–188)



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10

Common characteristics of depression



- Depressed mood (sad, empty, hopeless, tearful; in children: irritable)
- Diminished interest or pleasure in all activities
- Weight loss/gain
- Insomnia or hypersomnia
- Psychomotor agitation or retardation
- Fatigue, loss of energy
- Worthlessness, excessive guilt
- Diminished concentration span, indecisiveness
- Thoughts of death, suicidal ideation, or attempted suicide



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11

Depression vs. grief



Depression

- Focus: inability to anticipate joy
- More persistent
- Tied to preoccupations (e.g. self-criticism)
- Lack of self-esteem; feelings of worthlessness
- Thoughts about death: feeling of worthlessness or inability to cope with the pain

Grief

- Focus: loss, emptiness
- Decrease in intensity with pangs of grief
- Preoccupation with deceased
- Accompanied with positive emotions and humor
- Self esteem preserved
- Thoughts about death: "joining the deceased"




Dysthymia




- Milder version of depression
- Depressed mood present most of the day for more days than not at least for 2 years
- At least two of the following symptoms:
 - Poor appetite and overeating
 - Insomnia or hypersomnia
 - Low energy or fatigue
 - Low self-esteem
 - Poor concentration or difficulty making decisions
 - Feelings of hopelessness



Depression - Statistics



- Prevalence
 - Point: 1.5-4.9%
 - Life-time: 4.4-18% (men 12%, women 26%)
 - One-month P. China: 6% (Phillips et al., 2009)
- Course
 - Peak period: age 18-25 years; China: evtl. later!
 - 25% last < 1 month, 50% < 3 months, 75% < 6 months
 - **Highly recurrent**: 50% with one episode and 80% of those with two episodes will have another one
 - 77% show comorbidity (some articles claim 90-93% comorbidity!)



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14

Country	Mood
Americas	
Colombia	6.8 (6.0-7.7)
Mexico	4.8 (4.0-5.6)
United States	9.6 (8.8-10.4)
Europe	
Belgium	6.2 (4.8-7.6)§
France	8.5 (6.4-10.6)§
Germany	3.6 (2.8-4.3)§
Italy	3.8 (3.1-4.5)§
Netherlands	6.9 (4.1-9.7)§
Spain	4.9 (4.0-5.8)§
Ukraine	9.1 (7.3-10.9)§
Middle East and Africa	
Lebanon	6.6 (4.9-8.2)
Nigeria	0.8 (0.5-1.0)
Asia	
Japan	3.1 (2.2-4.1)
People's Republic of China	
Beijing	2.5 (1.5-3.4)
Shanghai	1.7 (0.6-2.9)

WHO study (2001-2003)

12-month prevalence rates across countries



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15

WHO study (2001-2003)

Beijing & Shanghai

Life-time prevalence	Prevalence, % (S.E.)				
	Total	Age (yr)			
		18-34	35-49	50-64	≥ 65
MDD: 3.5%					
Mood disorders					
Major depressive disorder	3.5 (0.4)	4.1 (0.8)	2.9 (0.4)	3.9 (0.7)	2.6 (0.7)
Dysthymia	0.1 (0)	0 (0)	0.2 (0.1)	0.3 (0.2)	0 (0)
Bipolar I-II disorders	0.1 (0)	0.1 (0.1)	0.1 (0.1)	0 (0)	0 (0)
Any mood disorder	3.6 (0.4)	4.2 (0.8)	3.1 (0.4)	4.0 (0.7)	2.7 (0.7)

Diagnosis	Any severity			Serious		Moderate		Mild	
	%	(S.E.)	χ^2_{2n}	%	(S.E.)	%	(S.E.)	%	(S.E.)
Mood disorder									
Major depressive disorder	2.0	(0.3)	1.0	16.5	(5.4)	51.1	(7.9)	32.4	(7.7)
Dysthymia	0.1	(0.1)	0.0	46.4	(17.7)	53.6	(17.7)	0.0	(0.0)
Bipolar I-II disorders	0.1	(0.1)	0.3	100.0	(0.0)	0.0	(0.0)	0.0	(0.0)
Any mood disorder	2.2	(0.4)	0.7	21.4	(6.7)	48.6	(7.6)	29.9	(7.3)

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16

	Mood	
	OR	(95% CI)
Sex		
Male	1.0	—
Female	0.8	(0.4-1.4)
χ^2	0.8	
Age (yr)		
18-34	2.0	(0.8-4.8)
35-49	0.9	(0.4-1.9)
50-64	—	—
65+	1.0	—
χ^2	3.5	
Income		
Low	1.8	(0.7-4.6)
Low-average	2.8*	(1.1-7.1)
High-average	1.0	(0.4-2.3)
High	1.0	—
χ^2	8.0*	
Marital status		
Married/cohabiting	1.0	—
Separated/widowed/ divorced	2.8*	(1.0-7.6)
Never married	0.4	(0.1-1.2)
χ^2	7.7*	

Odds ratios (OR) (1)


predicting the 12 months prevalence

Shanghai and Beijing(Shen et al., 2006)

- Low-average income (vs. high): 2.8
- Separated (vs. married): 2.8

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17


Correlate	OR	P-value	Odds ratios (OR) (2)	
Demographics			 He et al. (2012) <i>Risk for depression in “left-behind children” in rural China vs. children in a common family situation (controls)</i> <ul style="list-style-type: none">• $n_{(\text{left-behind})} = 590$• $n_{(\text{control})} = 285$• Age group: 9-14 years• Hebei Province	
Sex	0.89	0.55		
Age	1.16	0.27		
Grade	0.85	0.37		
Only child	0.77	0.16		
Left-behind/controls				
Controls	1.00			
Migrant fathers	3.42	< 0.01		
Migrant mothers	2.62	< 0.05		
Migrant parents	2.73	< 0.01		
SES				
Middle	1.00			
Low	2.64	< 0.01		
High	1.14	0.54		
Social support				
Middle	1.00			
Low	5.86	< 0.01		
High	0.50	< 0.05		
			- Spring Semester 2018	18

Age-of-onset percentiles for LTP(75)

Beijing and Shanghai (Lee et al., 2007)

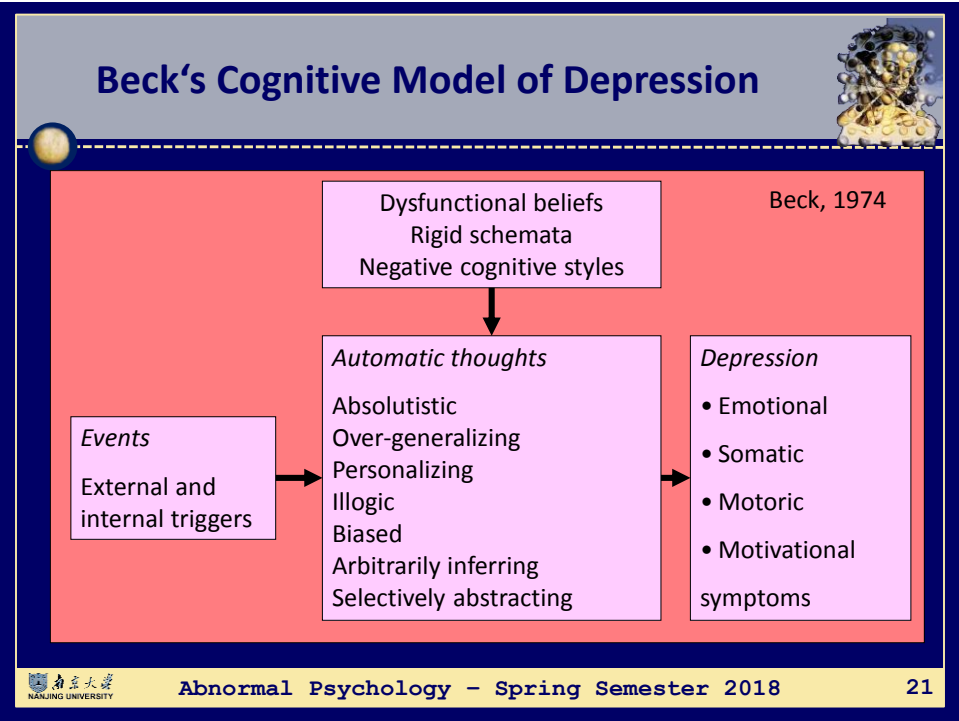
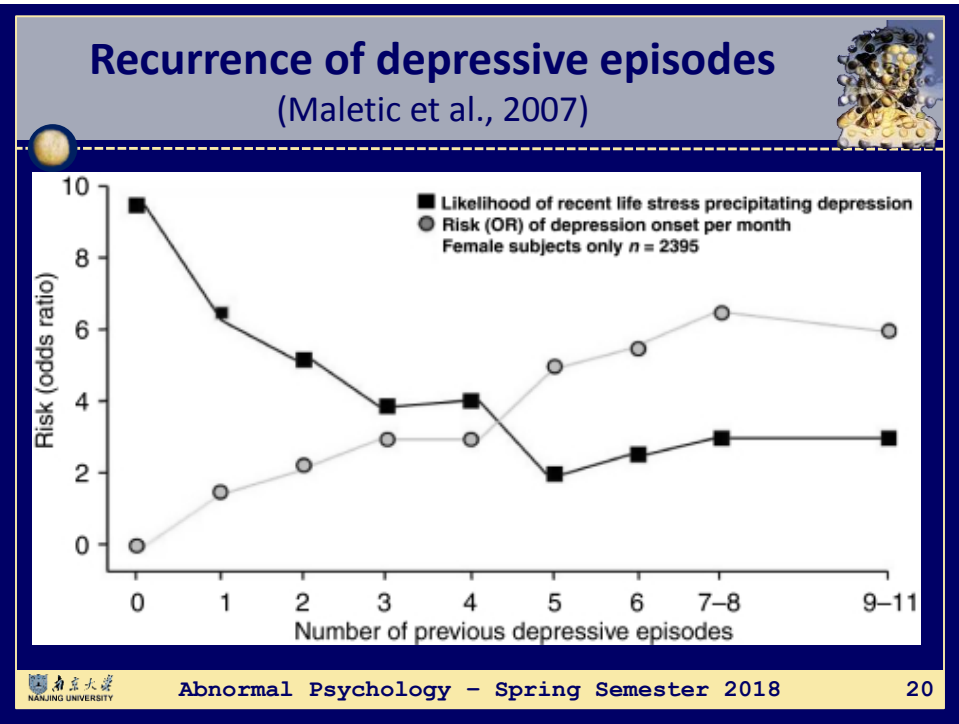
Age at selected age-of-onset percentiles, yr

	5	10	25	50	75	90	95	99
Anxiety disorders								
Panic disorder	—	—	—	—	—	—	—	—
Specific phobia	5	5	5	13	17	36	41	59
Generalized anxiety disorder	18	23	34	44	54	57	58	61
Post-traumatic stress disorder	—	—	—	—	—	—	—	—
Separation anxiety disorder	—	—	—	—	—	—	—	—
Any anxiety disorder ^a	5	5	10	17	36	55	57	60
MDD	18	21	28	43	54	67	68	68
Bipolar I–II disorders	—	—	—	—	—	—	—	—
Any mood disorder	18	21	28	43	53	67	68	68

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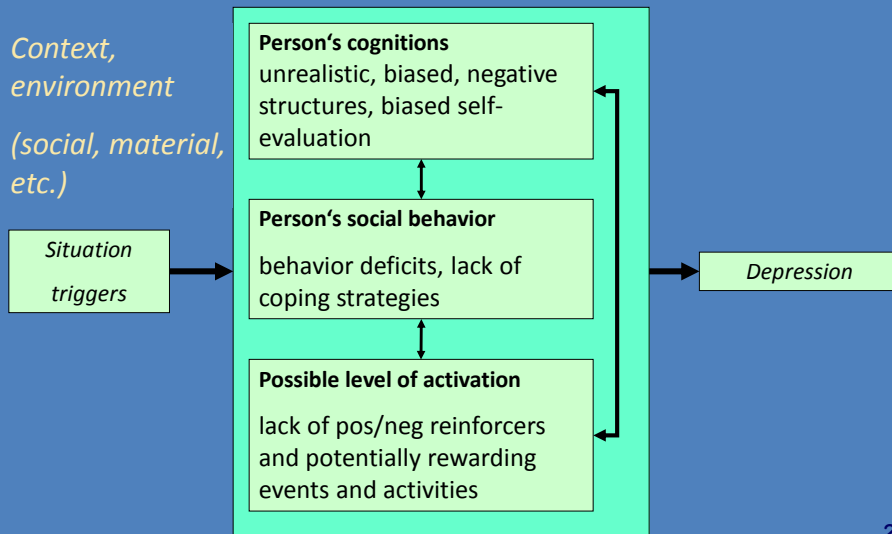
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19



Hautzinger's Integrative Model

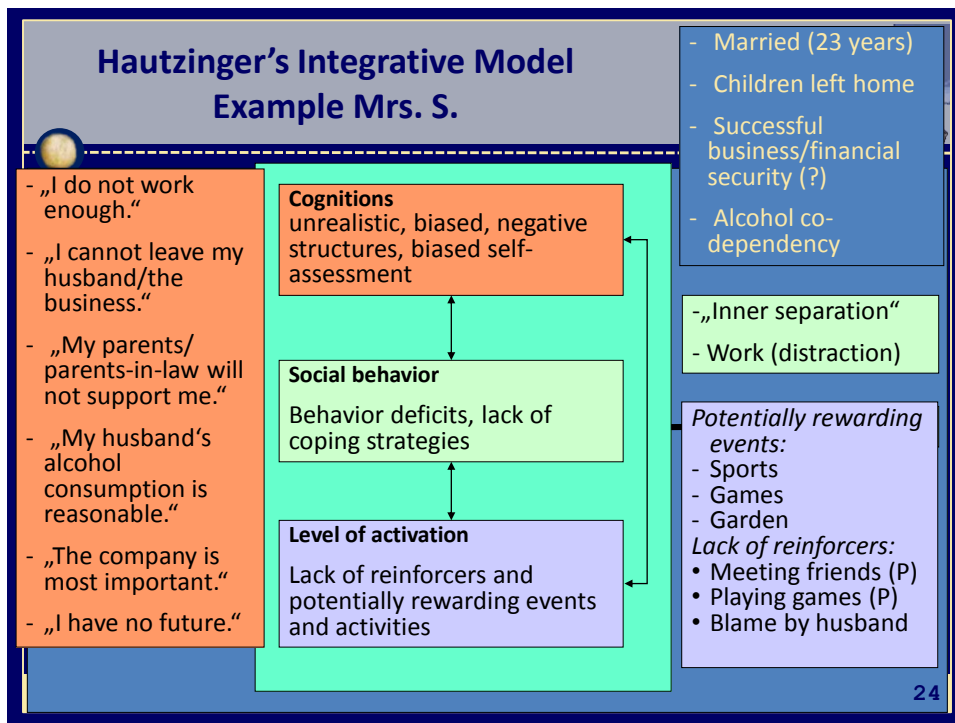
*Context,
environment
(social, material,
etc.)*



Homework

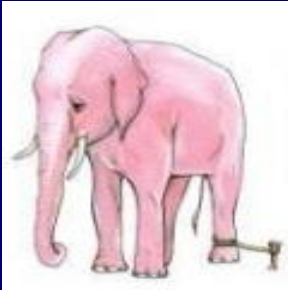
Apply Hautzinger's model to the case example. Follow the following questions:


- 1.) What is the situational context of Mrs. S.?
- 2.) What are events with negative consequences ("punishment") for Mrs. S.?
- 3.) What events could be potential positive/negative reinforcers in Mrs. S.'s life that are missing now?
- 4.) What beliefs might be unrealistic and biased?
- 5.) What do we know about Mrs. S.'s social behavior?



Further etiological explanations (1)

- *Aversive events/stressors*
- *Socio-cultural factors*
 - Low SES
 - Lack of social support system (recursive)
- *Personality factors*
 - Perfectionism
 - Neuroticism
 - Interpersonal dependence
- *Psychological explanations*
 - Learned helplessness
 - Attribution style (Weiner, 1986)
 - **internal** (vs. external) – locus of control
 - **stable** (vs. unstable) – across time periods
 - **global** (vs. specific) – across contexts/situations





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25

Further etiological explanations (2)



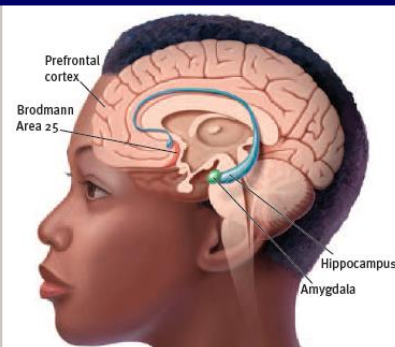
- *Biological factors*
 - Imbalance of multiple transmitters (serotonin, norepinephrine, dopamine, acetylcholine), serotonin as a neuromodulator
 - Hormone imbalance (↑ cortisol, ↑ melatonin)
 - Brain peculiarities: prefrontal cortex, Brodman area 25 (↑ activity or smaller size; „depression switch“?) – **It's a network issue!**
 - Dysregulated immune system
- *Psychodynamic explanations*
 - Loss ⇒ Regression to the oral stage (defence against grief)
 - Too much or too little gratification during childhood
- *Realism-thesis (refuted)*
Depressed people are more realistic people than others.
- *Scar-theories for recurrences*
A depressive episode leaves scars which makes people more sensitive to have depression again.

Biological findings

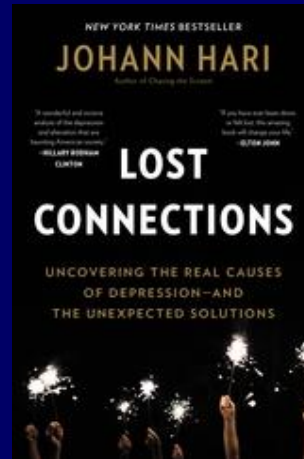
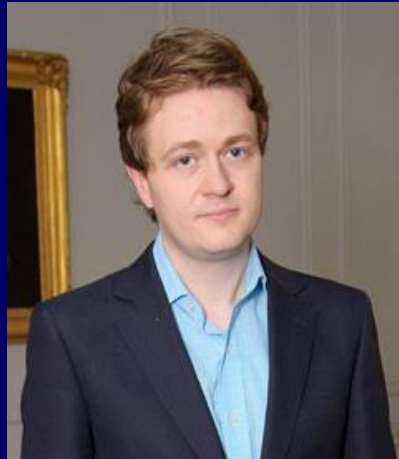
Comer, 2015, p. 225



The *prefrontal cortex* is located within the frontal cortex of the brain. Because it receives information from a number of other brain areas, the prefrontal cortex is involved in many important functions, including mood, attention, and immune functioning. Several imaging studies have found lower activity and blood flow in the prefrontal cortex of depressed research participants than in the prefrontal cortex of nondepressed people (Vialou et al., 2014). However, other studies, focusing on select areas of the prefrontal cortex, have found increases in activity during depression (Lemogne et al., 2010; Drevets, 2001, 2000). Correspondingly, research finds that the prefrontal cortex activity of depressed individuals increases after successful treatment by some antidepressant drugs, but decreases after successful treatment by other kinds of antidepressant drugs (Cook & Leuchter, 2001). Given these varied findings, researchers currently believe that the prefrontal cortex plays a critical role in depression but that the specific nature of this role has yet to be clearly defined (Treadway & Pizzagalli, 2014; Goldstein et al., 2011).



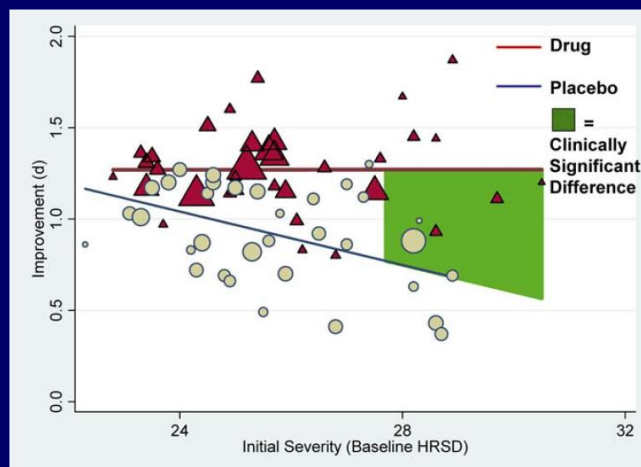
Johann Hari



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28

Dysfunction of the brain? Placebo effect of antidepressants



Kirsch et al. (2008) doi:10.1371/journal.pmed.0050045.sd001



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29

Disconnection from meaningful work



- Whitehall study (Marmot et al. 1991; 10.1016/0140-6736(91)93068-K)
The lower the social status the higher the mortality among civil servants.
<https://unhealthywork.org/classic-studies/the-whitehall-study/>
Key factor: lack of balance between efforts and reward



Disconnection from people



John Cacioppo (1951-2018)
“Social neuroscience”

Loneliness is contagious, heritable, precedes depression, affects one in four people – and increases the chances of early death by 20%.

Social media cannot compensate us psychologically for what we have lost—social life.



Disconnection from meaningful values





**I shop
therefore
I am**



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32



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33

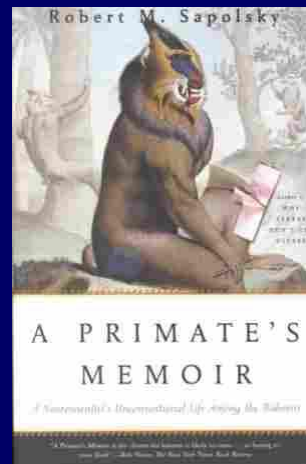
Disconnection from childhood trauma



- Chapman et al. (2004)
[10.1016/j.jad.2003.12.013](https://doi.org/10.1016/j.jad.2003.12.013)

“If you had six categories of traumatic events in your childhood, you were five times more likely to become depressed as an adult than somebody who didn’t have any. If you had seven categories of traumatic event as a child, you were 3100 percent more likely to attempt to commit suicide as an adult.” (Hari, 2018, p. 114)

Disconnection from status and respect



Disconnection from the natural world



- Alcock et al. (2013), doi:10.1021/es403688w
- http://www.jayhanson.us/_Biology/BiophiliaBeyondToxicity.pdf



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36



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37






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38





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39





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40





42

Disconnection from a hopeful and secure future

The Town with No Poverty:
The Health Effects of a
Canadian Guaranteed
Annual Income Field
Experiment (1974-1979)

<http://sociology.uwo.ca/cluster/en/documents/Research%20Briefs/PolicyBrief10.pdf>

“Considerable decrease in hospitalization and physician contact for mental health diagnoses, as well as a decrease in hospitalization for accidents and injuries.”



Remedies



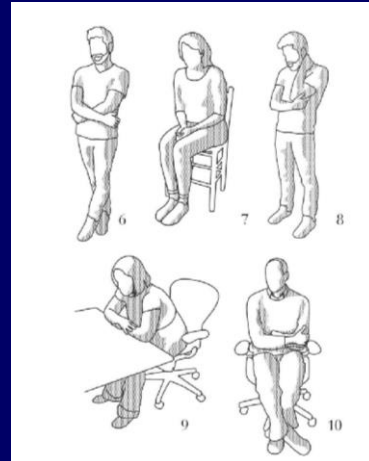
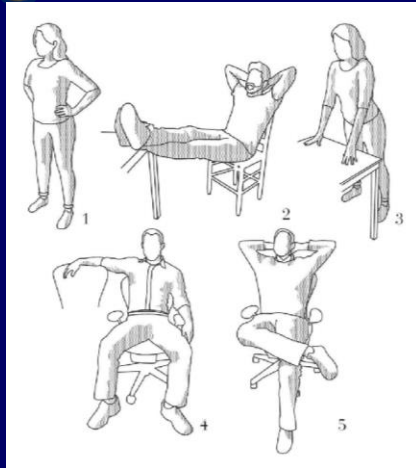
- Reconnection with other people (real)
 - Meaningful work
 - Meaningful values (i.e., less materialism)
Kasser et al., 2013, doi:10.1007/s11031-013-9371-4
 - Overcoming childhood trauma
 - Restoring the future
- Et al.



What makes us
human?

Relationship with the body

“powerful vs. powerless poses” (Cuddy, 2015)



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46

Relationship with the body (2) Walking style



In-patients with severe MDD

- Less arm swing
- Less head movement
- Slumped posture

That was related to their memory of positive/negative emotional terms. (experimental setup!)

Michalak, 2014


Check yourselves: <http://www.biomotionlab.ca/Demos/BMLgender.html>




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47

Facial muscles







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48



"I don't sing because I am happy. I am happy because I sing."



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49

Why so many women?



- More responsibilities = stressors
 - Earn less
 - Double function: job and family
- Conformity pressure (outward appearance, career woman etc.)
- Different coping styles
 - Men: distracting (outside)
 - Women: focusing (inside)
- Hormone imbalances
- Artifact? (less diagnosed in men)
- Yet: Results far from conclusive !



Why so rarely (?) diagnosed in China? (1)



- Different ways of reporting symptoms/different display rules due to cultural sanctions:
 - Preference for reporting somatic symptoms (but: psychological symptoms used if directly asked)
 - Local expressions: 思想混乱, 心痛
 - Cues indicating pre-verbal pain : 辛苦
 - Sleeplessness as cause instead of symptom
 - Word "depression" lacks appeal
- Different ways of classification: neurasthenia (depression usually used if much functional impairment)

Why so rarely (?) diagnosed in China? (2)



- Protective cultural factors
 - Tradition of withstanding hardship
 - Tolerance for distressing circumstances
 - Sense of interdependence with family
 - Common traditional beliefs: 风水, 缘, 忍
- Protective personality: stoicism (depression simply “accepted”)
- Mental illness as a stigma (“collective loss of face”) => less reported



However:



Criteria for depression converging between Western samples and Chinese samples when using DSM-IV as a standard.

Kendler, K. S., Aggen, S. H., Li, Y., Lewis, C. M., Breen, G., Boomsma, D. I., & ... Flint, J. (2015). The similarity of the structure of DSM-IV criteria for major depression in depressed women from China, the United States and Europe. *Psychological Medicine*, doi:10.1017/S0033291714003067



Treatment (1)



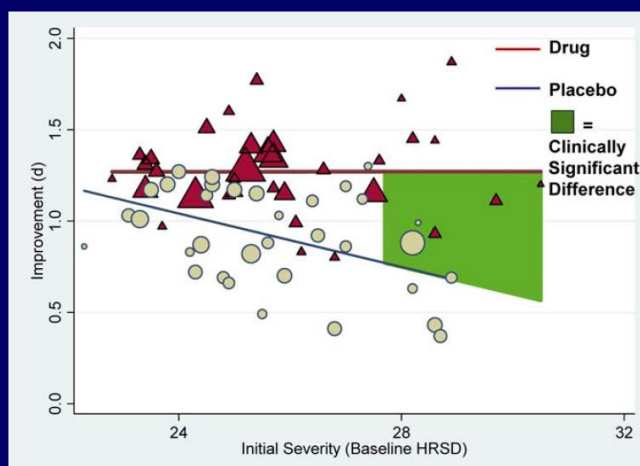
- **Drug therapy** - most important drugs
 - Monoamine oxidase inhibitors (MAOIs) success rate 50%, but severe side effects such as sudden increase in blood pressure
 - Tricyclics
60% success, but severe side effects such as constipation, dry mouth
 - Selective serotonin reuptake inhibitors (SSRIs)
often treatment of choice, but also side effects
 - St John's wort – only for mild depressions, mechanisms unknown
- Electroconvulsive therapy/transcranial magnetic/vagus nerve/deep brain stimulation – only for severe cases
cf. http://www.ted.com/talks/sherwin_nuland_on_electroshock_therapy



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54

Dysfunction of the brain? Placebo effect of antidepressants



Kirsch et al. (2008) doi:10.1371/journal.pmed.0050045.sd001



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55

Treatment (2)



Cognitive behavioral Therapy

Ingredients

- Psychoeducation
- Behavioral activation, pleasant event scheduling
- Cognitive rehearsal, challenging automatic thoughts
- Behavioral hypothesis testing

Try it out yourself: <https://moodgym.anu.edu.au/welcome>



MoodGYM
TRAINING PROGRAM

Interpersonal therapy

- Focus on the improvement of interpersonal relationships
- Teaching and training social skills
- Uncovering role changes



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56

Behavior activation examples (via checklists)



- Daydreaming
- Take a nap in the sun
- Meeting someone new
- Wearing elegant clothes
- Visit a library and skim through books
- Reading the newspaper
- Drinking good wine
- Taking a bath
- Working for Amnesty International



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57

Treatment (3)



Conclusions

- Cognitive, cognitive-behavioral, interpersonal, and biological, treatments are equally effective (more than 50-60% of clients improve)
- For severe depression, pharmacotherapy has proven more effective; ECT most effective, but chosen with care
- Psychological treatments seem to have better long-term effects (especially: high relapse rate with pharmacotherapy)
- Most beneficial: combined approaches



Example: Mary (II)



Bipolar Disorders (1)



- Two main types
 - **Bipolar I:** alternating episodes of depression and mania, sometimes separated by periods of normality
 - **Bipolar II:** no mania, depressive episodes dominate, at maximum hypomanic periods
- *Life-time prevalence:* 1-2% (China: 0.1%, 20% of those diagnosed with depression actually have non-detected bipolar disorder)
- *Course*
 - First episode at age 20-30
 - Severity: first increases, then decreases again after ca. 10 years
 - 80% with one episode of mania will have further episodes
 - Average: 4 episodes of mania in 10 years
- *Rapid cycling:* ≥ 4 different episodes per year (5-10% of patients with bipolar disorder)

Bipolar Disorders (2): Etiology



2.2

Ursachen und Pathogenese

Die Frage nach den Ursachen für die Entstehung Bipolarer Störungen kann derzeit nicht abschließend beantwortet werden. Wahrscheinlich ist eine multifaktorielle Genese. Neben einer relativ starken genetischen Komponente, welche wahrscheinlich Grundlage einer erhöhten Suszeptibilität (d. h. Sensibilität) für die Erkrankung ist, spielen Umwelteinflüsse (u. a. stressvermittelt) und Persönlichkeitscharakteristika sicherlich eine entscheidende Rolle. Auch wenn zum Teil detaillierte Befunde einzelner Mechanismen bekannt sind, lässt sich ein die verschiedenen Forschungsergebnisse integrierendes etiopathogenetisches Modell der Bipolaren Störungen nicht ableiten (für einen aktuellen Überblick siehe Haack et al. 2010).

“The question about the causes for the development of bipolar disorders cannot be answered conclusively by now....

Although certain detailed results about mechanisms exist, we cannot deduce an etiopathological model of bipolar disorders that may integrate all those research results.”

Guidelines for bipolar disorders by the *German Association for Bipolar Disorders* (2012)

Bipolar Disorders (3)



Etiology

- High amount of genetic influence
 - Concordance rates: MZ 40-72% vs. DZ 5-14%
 - Definitely: Multiple genes involved, but still unclear how
- Neuronal damage in the amygdala and hippocampus
- Related to ions within the neuron
- Main cognitive explanation: mania as defence against depression

Treatment

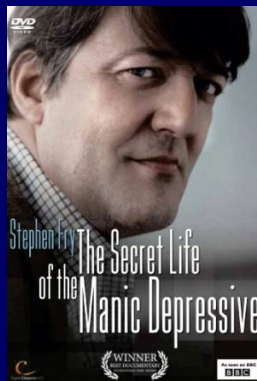
- Lithium (treatment of choice though mechanism unclear; **dosage important!**)
- Accompanying: cognitive behavior therapy including family members

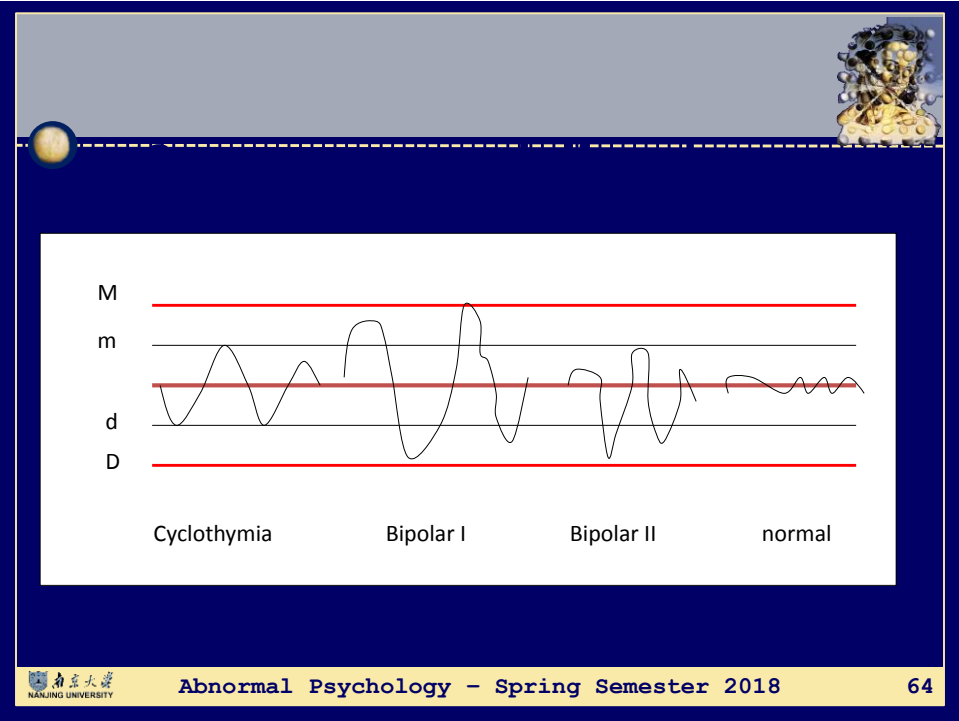


Movie recommendation



Stephen Fry (2006)
 “The secret life of the manic-depressive”





Johann Wolfgang Goethe
Die Leiden
des jungen Werther
Reclam

Suicide

南京大學
NANJING UNIVERSITY

Abnormal Psychology - Spring Semester 2018

65

Motivation



- Choose a partner you trust.
- Exchange on the following questions:
 - What is your personal attitude toward suicide?
 - Have you ever thought about killing yourself?
 - Do you know a person who killed him- or herself?
 - Why do you believe would people choose suicide as an option?
 - Do you think suicide is a larger problem in China than in Western countries?