ATYPICAL DEPRESSION

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Pre-Lecture Exam Question 1

- 1. All of the following should be considered in validating a psychiatric syndrome except:
 - A. Family history
 - B. Biology
 - C. Course of illness
 - D. Differentiation from other syndromes and disorders
 - E. Number of syndrome symptoms a given patient has

- 2. The concept of atypical depression was first described by:
 - A. DSM IV
 - B. Donald F. Klein
 - C. Donald Robinson
 - D. West and Dally
 - E. Hagop Akiskal

- 3. The DSM IV atypical features modifier defines a group of patients that
 - A. predictably respond to tricyclic antidepressants.
 - B. have a biological disorder similar to melancholia.
 - C. may be heterogeneous, some patients having a disorder similar to melancholia, others having a disorder unlike melancholia.
 - D. do not have a biological disorder.
 - E. do poorly when treated with pharmacologic agents.

- 4. A possibly important post-DSM IV finding about depression with atypical features is that
 - A. depressed patients with atypical features have shortened REM period latency.
 - B. those who look least like patients with melancholia are those who experienced an early onset of their depressive illness and subsequently did not experience well-being.
 - C. those who look least like patients with melancholia are those who have a nonchronic course of illness.
 - D. epidemiologic studies have failed to find such patients.
 - E. they are likely to respond to placebo.

5. Depression with atypical features is

- A. so labeled because it is rare in the population.
- B. so labeled because patients with it do not have typically melancholic features.
- C. common relative to melancholia.
- D. B and C
- E. None of the above

6. Depression with atypical features

- A. appears to be familial
- B. is an early onset, chronic disorder
- C. may be biological but does not demonstrate the abnormal biological features of melancholia
- D. All of the above
- E. None of the above

ATYPICAL DEPRESSION Teaching Points

- West & Dally 1st described atypical depression as TCA-unresponsive/MAOI responsive in 1959
- Syndrome description, course of illness, biologic studies, family studies and pharmacologic dissection, differentiate atypical depression from melancholia and other depressions
- New criteria are proposed incorporating age of onset and chronicity requirements for DSM-V depression with atypical features

ATYPICAL DEPRESSION

- Historical perspective
- Validity
- Current context

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MELANCHOLIC PATIENTS ARE:

"dull or stern, dejected or unreasonably torpid, without manifest cause... And they also become peevish, dispirited, sleepless, and start up from a disturbed sleep."

Aretaeus of Cappadocia (AD 120-180)

A MELANCHOLIC PATIENT:

"In Thesus, a woman, of a melancholic turn of mind, from accidental cause of sorrow, while still going about, became affected with loss of sleep, aversion to food, and had thirst and nausea..."

Hippocrates (462-555 BC)

WEST AND DALLY - 1959

Characterized of patients who respond to MAOI but not TCA as not having typical endogenous symptoms

- Evening worsening
- Severe fatigue*
- Prominent anxiety
- Multiple phobias
- Somatic preoccupation
- Premenstrual tension

^{*}ADSM-IV/criterion for atypical features

WEST AND DALLY – 1959 (cont.)

- Emotional reactivity*
- Absence of endogenous vegetative symptoms
- Good premorbid functioning and personality

^{*}ADSM-IV criterion for atypical features

SARGENT – 1960 Atypical Depression

- Hysterical exaggeration*
- Emotional hyper-reactivity*
- Lethargy*
- Anxiety
- Good premorbid personality
- Depression in response to stress*
- Phobic fears

^{*}ADSM-IV/criterion for atypical features

SARGENT – 1960 (cont.)

- Irritability
- Hyper-reactive*
- PM worsening
- No insomnia or initial insomnia
- No psychomotor
- Worse with ECT

^{*}ADSM-IV/criterion for atypical features

HORDERN – 1965 **Atypical Depression**

- Phobic anxiety
- Reverse diurnal worsening
- Fatigue*
- Emotionality*
- Initial insomnia
- Tendency to blame others

HYSTEROID DYSPHORIA Klein - 1969

- Female
- Mood swings*
- Overidealize romances*
- Hyperphagia*
- Hypersomnia*
- Egocentric

^{*}ADSM-IV/criterion for atypical features

HYSTEROID DYSPHORIA Klein, 1969 (cont.)

- Histrionic style of interaction
- Imipramine unresponsive
- MAOI responsive

ENDOGENOMORPHIC DEPESSION Klein - 1974

Pervasive anhedonia is the hallmark of endogenous depression

ROBINSON – 1980 Description of patients likely to respond to MAOI's

- Evening worsening
- Hysterical personality*
- Weight gain*
- Psychic and somatic anxiety
- Initial insomnia
- Emotional reactivity*
- Somatic complaints

^{*}ADSM-IV/criterion for atypical features

DAVIDSON - 1982

- Required features Mood reactivity, nonendogenous depression (by Newcastle Scale)
- A Type Anxiety prominent
 - No required vegetative features
- V Type Vegetative Symptoms prominent (one required)
 - *Hyperphagia
 - *Weight gain
 - Evening mood worsening

^{*}ADSM-IV criterion for atypical features

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SYNDROMIC VALIDATION Robins & Guze - 1970

- Syndrome description
- Laboratory findings
- Follow-up study
- Family history
- Delineation from other disorders

PHARMACOLOGIC DEPRESSION Klein - 1989

 Different responses to the same treatment imply different underlying pathophysiologies

PHARMACOLOGIC DEPRESSION Corollary

 Different response to treatment is evidence that two syndromes have different underlying physiology

SYNDROMIC VALIDATION Robins & Guze + Klein

- Syndrome description
- Laboratory findings
- Follow-up study
- Family history
- Delineation from other disorders
- Pharmacologic dissection

ATYPICAL DEPRESSION Syndrome Description

DSM-IV Criteria

- Meets criteria for major depression or dysthymia
- Significant mood reactivity
- At least two associated features
 - Hyperphagia
 - Hypersomnia
 - Leaden paralysis
 - Rejection sensitivity
- Does not meet criteria for melancholia or catatonic features

SYNDROME DESCRIPTION

<u>Atypical</u> <u>Melancholia</u>

Mood reactivity Reactive Pervasive anhedonia

Eating Increased Decreased

Sleep Increased Decreased

Energy Leaden paralysis Low without leaden paralysis

paralysis

Premorbid Rejection sensitive Normal sensitivity personality

HYPOTHESES

- Patients with atypical depession will be more likely to benefit from phenelzine than from imipramine
- Imipramine will be no more effective than placebo for patients with atypical depession

INCLUSION CRITERIA

- 18-65 years
- Meets DSM-III criteria for depressive disorder
- Meets criteria for atypical depression
- Gives informed consent
- HAM-D ≥ 10

INCLUSION CRITERIA (cont.)

- Willing and able to follow tyraminefree diet
- Physically healthy

EXCLUSION CRITERIA

- History of psychosis
- History of prior adequate treatment with TCA or MAOI
- Medical disorder increasing risk of study medications
- BP> 140/90

ATYPICAL DEPRESSION Study #1 (n=119)

Percent Responding

Placebo 28%

Imipramine 50%

Phenelzine 71%

Phenelzine > imipramine > placebo

ATYPICAL DEPRESSION 6 Week Outcome

% Responding

	<u>Placebo</u>	<u>Imipramine</u>	<u>Phenelzine</u>
Original Study (N=119)	28%	50%	71%
Replication Study (N=90)	19%	50%	83%

Liebowitz MR et al: Archives of General Psychiatry 45:129-137;1988

Quitkin FM et al: Archives of General Psychiatry 47:935-941;1990

LABORATORY STUDIES

- Sleep Normal
- DST Normal
- Tyramine Normal
- Brain asymmetry Normal vs. Right brain dysfunction
- Mood response to stimulants -Dysphoric

LABORATORY TESTING (%) ABNORMAL

	<u>DST</u>	Tyramine Excretion	Dichotic <u>Listening</u>	Dysphoria to Amphetamines
Atypical Depression	11	42	17	31
Melancholia	35	84	59	11

VALIDATION OF ATYPICAL DEPRESSION Family Study - Rate per 100 Relatives

<u>Proband</u>	Atypical N=15	Nonatypical N=10	p
Relatives	22	30	
Major	59	33	0.06
Dysthymia	18	3	0.08
Atypical	27	7	0.04
Alcohol	0	10	ns

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TREATMENT RESPONSE OF ATYPICAL DEPRESSION TO FLUOXETINE

Inclusion Criteria

- Major depression
- Atypical depression
- 10 week double-blind, placebo-controlled
- Fluoxetine to 60 mg/d
- Imipramine to 300 mg/d

TREATMENT RESPONSE Fluoxetine

Placebo 23% (12/52) 53% (28/53)

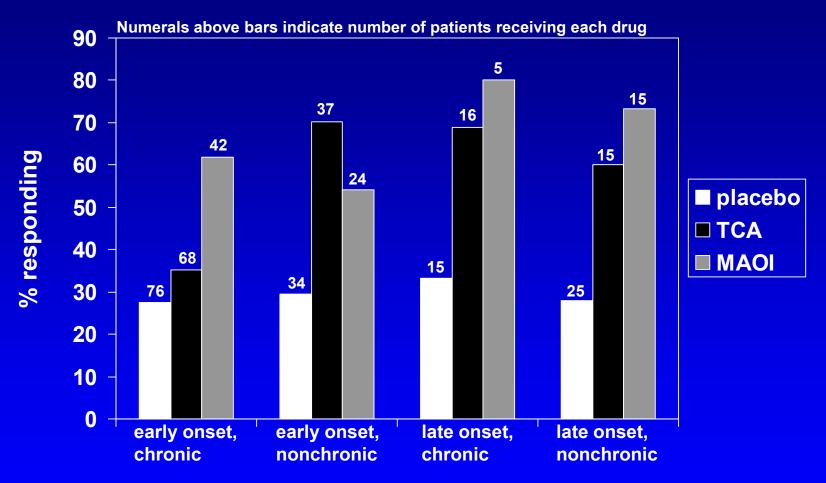
Fluoxetine 51% (25/49)

MOCLOBEMIDE

- Reversible type A inhibitor (RIMA)
- Not superior to SSRIs for atypical depression^{a,b}
- Clinical impression^c
 - works like traditional agents
 - better side effects profile
 - no diet
- 600-900 range most likely effective, appears safe
- Only available from foreign pharmacies (i.e., not approved by US FDA)

- a Lonnqvist et al: Journal of Affective Disorders 32:169-77;1994
- b Søgaard et al: Journal of Pychopharmacology 13:406-14;1999

Treatment Outcome of DSM IV Atypical Depression Effect of Age of Onset and Chronicity



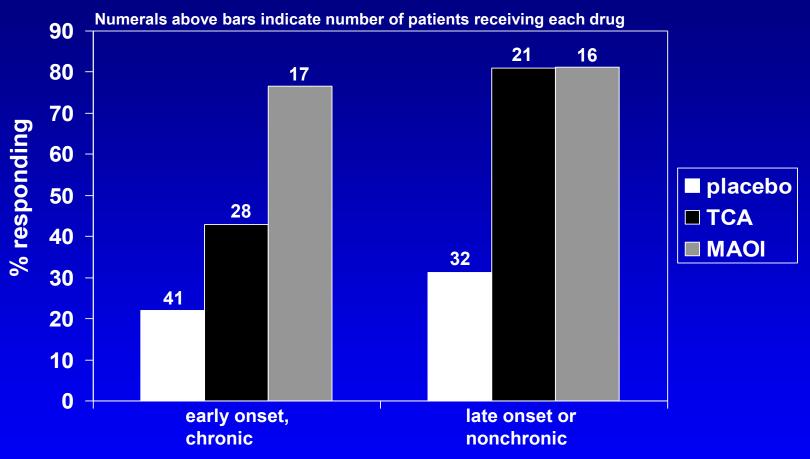
Early onset = first significant dysphoria prior to age 21

Late onset = first significant dysphoria after age 20

Chornic = duration > 2 years and no two month well-being following onset

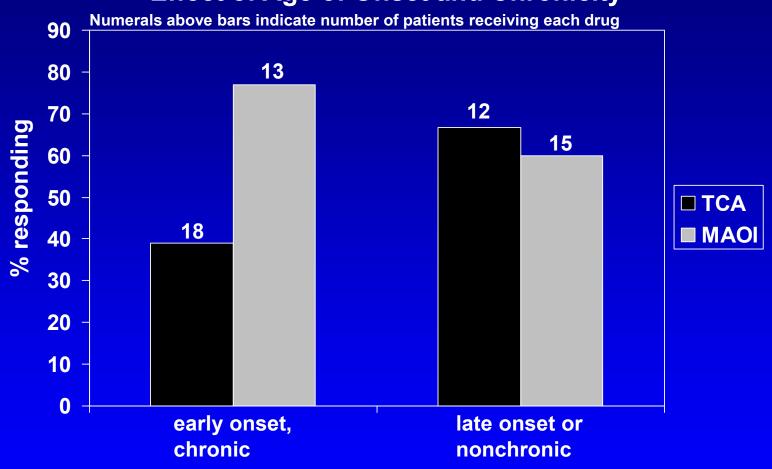
Nonchronic = duration < 2 years or > two months well following onset

Treatment Outcome of Probable Atypical Depression Effect of Age of Onset and Chronicity



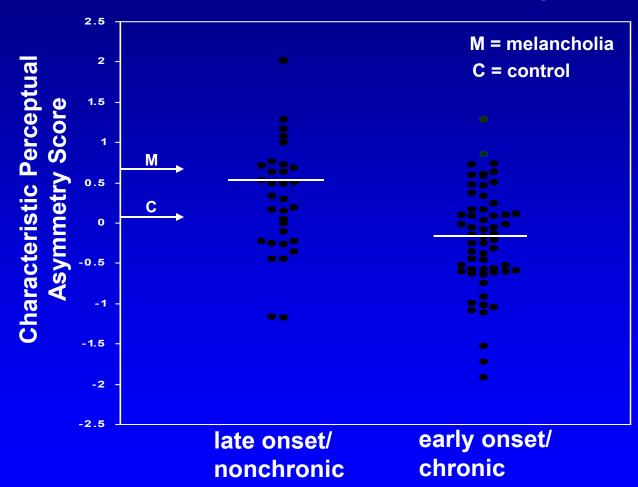
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Treatment Outcome of Placebo Nonresponders with DSM IV or Probable Atypical Depression Effect of Age of Onset and Chronicity

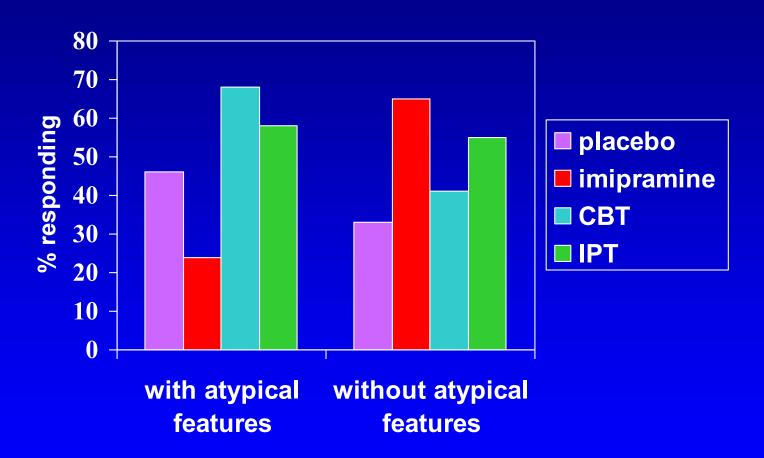


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Dichotic Testing in Patients with DSM IV or probable Atypical Depression According to Age of Onset and Chronicity



Treatment Response in the TDCRP* by Presence or Absence of Atypical Features



^{**}TDCRP-=_Treatment of Depression Collaborative Research Project

Epidemiologic Validation: Twins

- Latent class analysis of 14 DSM-IV symptoms
- 1029 female-female twin pairs
- Three clinically identifiable types emerge:
 - Mild typical (8.9%)
 - Atypical (3.9%) or 26.9% of clinically depressed subjects
 - Severe typical (1.7%)

Kendler et al: 1996 Arch Gen Psychiatry 53:391-399

Epidemiologic Validation: Twins

- Atypical subtype
 - Stable in repeated episodes (O.R. = 8.3, P < .0001)
 - Familial (MZ twin concordance O.R. = 5.4, P < .001)
 - Reverse vegetative features
 - Frequent fatigue and psychomotor retardation
 - Not characterized by anxiety
 - GAD 15% for atypical, 32% mild typical, 78% severe typical, all significantly different
 - Least likely to be precipitated by a stressful life event

Kendler et al: Arch Gen Psychiatry 53:391-399;1996

National Comorbidity Survey

- Latent class analysis
- N = 2,836 epidemiologic sample
- DSM III-R symptoms
- Results of twin study replicated
 - Four classes: mild and severe typical mild and severe atypical
 - 36.6% of depressive episodes atypical

ATYPICAL DEPRESSION Suggested DSM-V Criteria

- Meets criteria for major depression or dysthymia
- Significant mood reactivity
- At least one associated feature
 - Hyperphagia
 - Hypersomnia
 - Leaden paralysis
 - Rejection sensitivity
- Onset prior to age 20
- At least two years duration
- No two months of spontaneous well-being since onset
- Does not meet criteria for melancholia or catatonic features

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Answers to Pre & Post Competency Exams

- 1. E
- 2. D
- 3. C
- 4. B
- 5. B
- 6. D