Treatment of Panic Disorder

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Panic Disorder Presentation Outline

- Pre-lecture Questions
- Main teaching Points
- Illness Characteristics
- Morbidity and Comorbidity
- Diagnostic and Assessment Issues
- Treatment Options
- Summary
- Post-lecture questions

True or False?

In the U.S., the lifetime prevalence of panic disorder in men is twice as high as in women.

True or False?

When panic disorder and major depression co-exist, the risk for suicide attempts increases.

Panic disorder is associated with increased risk for other psychiatric disorders: GAD, OCD, social anxiety disorder, major depression

Which disorder usually precedes panic disorder?

What is the APA recommendation for first-line pharmacotherapy for panic disorder?

Which sub-cortical structure is the critical brain nucleus for fear conditioning?

Teaching Point #1

Choose an agent with efficacy against the disorders most frequently co-existing with PD, such as an SSRI or SNRI.

Teaching Point #2

Fear I and avoidance is modulated by both cortical and sub-cortical areas in the fear circuit

Important brain areas Include:

Prefrontal Cortex, Hippocampus, Amygdala, Locus Ceruleus

Teaching Point #3

The majority of patients with PD require long-term treatment.

DSM-IV Panic Attack Symptoms

≥ 4 Sx, usually peak within 10-20 Minutes

- 1. Palpitations, pounding heart
- 2. Chest Pain or discomfort
- 3. Shortness of breath
- 4. Feeling of choking
- 5. Feeling of dizzy, unsteady, lightheaded or faint
- 6. Paresthesias (numbness or tingling sensations)
- 7. Chills or hot flushes
- 8. Trembling or shaking
- 9. Sweating
- 10. Nausea or abdominal stress
- 11. Derealization (unreality) or depersonalization (detached)
- 12. Fear of losing control or going crazy
- 13. Fear of dying

DSM-IV Panic Disorder

- One or more <u>unexpected</u> panic attacks
- Followed by ≥ 1 month of worry or concern over the implications of the attacks
- With changes in
 - Cognition- Distorted: Catastrophic pr potentially serious medical illness
 - Behavior -- Avoidance. Health care consultations

Agoraphobia

- Avoiding or enduring with dread:
 - Situations in which another PA may occur
 - Dignified and ready exit or help may not be available including crowds, bridges,etc.

Order of onset of PA and agoraphobia debated

Panic Attacks: Differential Diagnosis

- Panic attacks occur in
 - Social anxiety-social cues
 - OCD reaction to obsessions
 - Specific phobia-specific cues (snakes, storms, etc)
 - PTSD-trauma related cues
- PD sufferers fear the attacks themselves

Panic Attacks-Panic Disorder-Agora

NCS Replication (n=9282)

Degree of Impairment

PD + Ag

Ag + isolated PA

PD without Ag

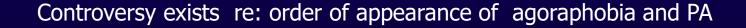
Isolated PA

Most

Least

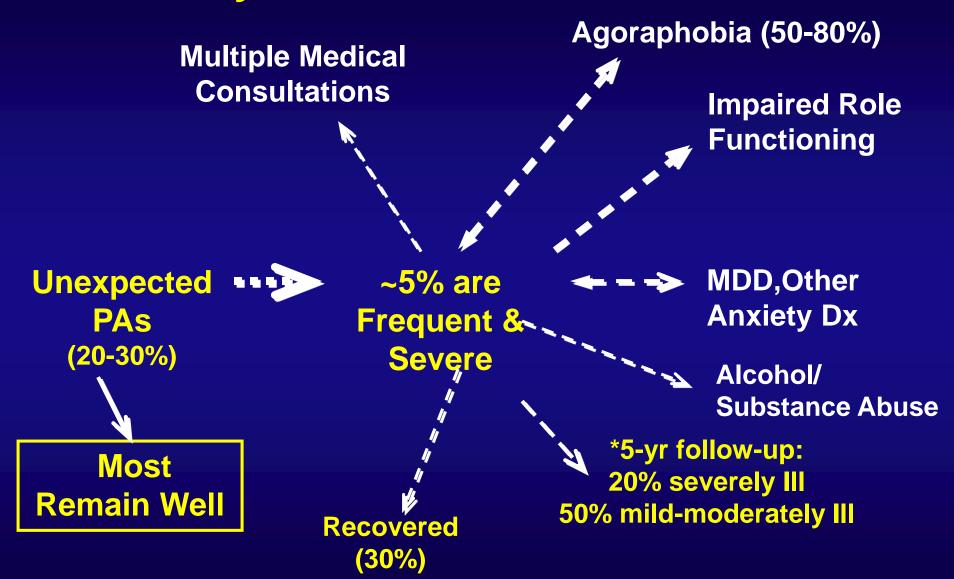
Theoretical Pattern of Onset and Treatment Response in PD

- Onset: Unexpected Panic -->anticipatory anxiety>-catastrophic thoughts -->agoraphobia
 - Reverse of order of onset
- With treatment: Symptom response pattern
 - 2-6 weeks-unexpected PA less frequent, severe
 - 8-12 weeks-Cued PA, anticipatory anxiety less severe
 - 8-?? Weeks-Agoraphobic avoidance decreases





PD 5-yr Course After Initial Treatment

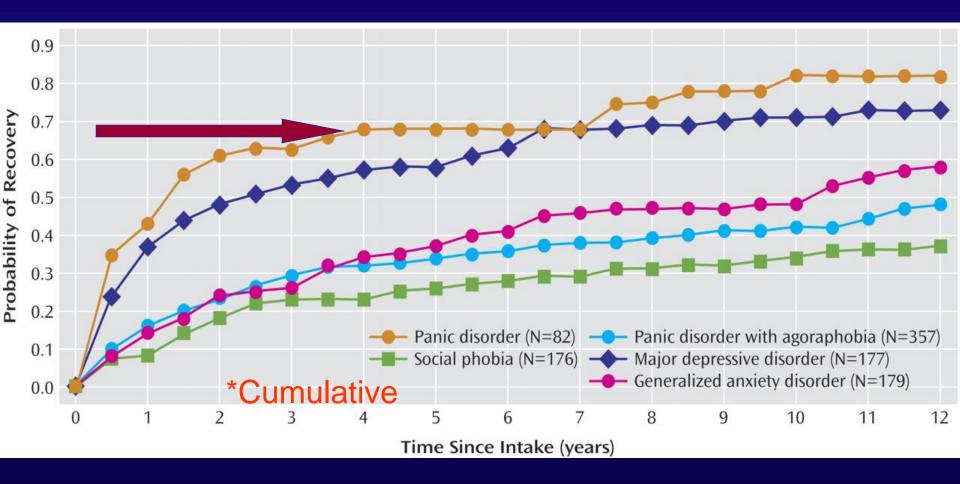


*423 PD patients treated; 323 re-interviewed; Katschnig, H. et al. Long-term follow-up after a drug trial for panic disorder. Br Psychiatry 1995;167:487-94

*

* 12-Yr Probability of Remission

Panic Disorder - High recovery rate, high recurrence rate

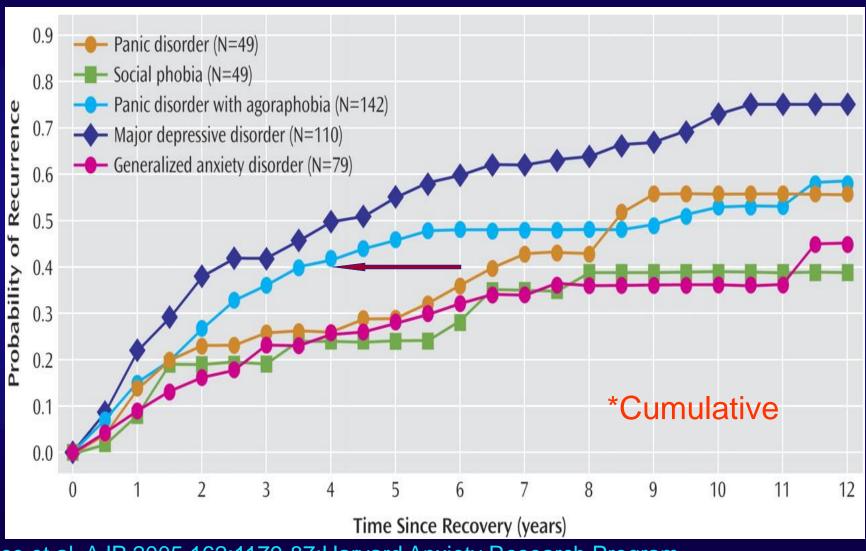


Bruce et al, AJP2005 162:1179-87 Harvard Anxiety Research Program

*

12-Yr Probability for Recurrence

Panic Disorder high rate of recurrence



Bruce et al, AJP 2005 162:1179-87; Harvard Anxiety Research Program

Panic Disorder Neurobiology

- Fear Circuit Dysfunction
- Women:men = 2:1
- Inherited risk-polymorphism
 - **♦ Lower brain serotonin transporter Meron et al, Psych Res** 2004;132:939-45
 - Reduced brain 5HT1a receptor binding Nash et al Br J Psychiatry 2008; 193:229-34
- Non-random comorbidity
- Challenge studies

The Fear Circuit Model

Explanation for both CBT and Pharmacotherapy



Brain Circuits in Anxiety Disorders

- Neurocircuits:
 - Interconnected , interactive brain regions
- Amygdala:
 - Subcortical structure serving as the "central hub" in fear processing.
- Cortico-Striatal-Thalamic-Cortical (CSTC) Pathways:
 - Closed loops originating in the frontal cortex which sequentially process specific types of information about emotion, cognition or behavior.



The Fear Circuit Model:

Critical Components Inter-modulate

Amygdala CeN (central nucleus) = "alarm button"

- Interacts with other brain structures
- Processes information --'watchdog' function
- Encodes conditioned fear

Hippocampus

Storage and retrieval of contextual and declarative memory

Prefrontal Cortex--Executive Function

- Coping and problem solving, probability estimation
- Fear conditioning (phobic avoidance)

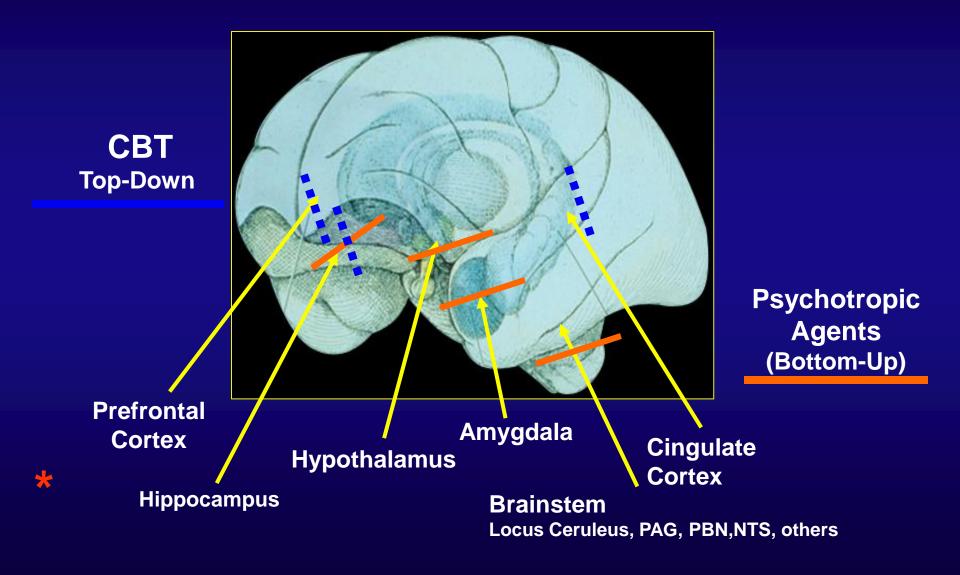
Lateral Nucleus of Hypothalamus- Brainstem

- Sympathetic activation
- Locus ceruleus, nucleus solitarius, PAG, parabrachial nuceus, etc.

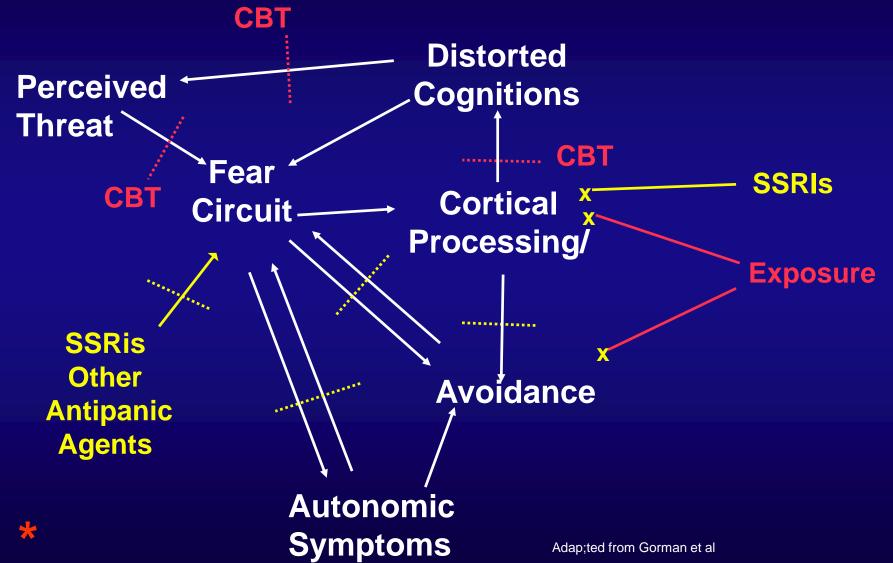


Model for Actions of Psychotropics and CBT

Fear Circuit Model explains both CBT and Drug Rx reduce amygdala reactivity



Theoretical Sites of Action of Antipanic-Antiphobic Treatment(s)



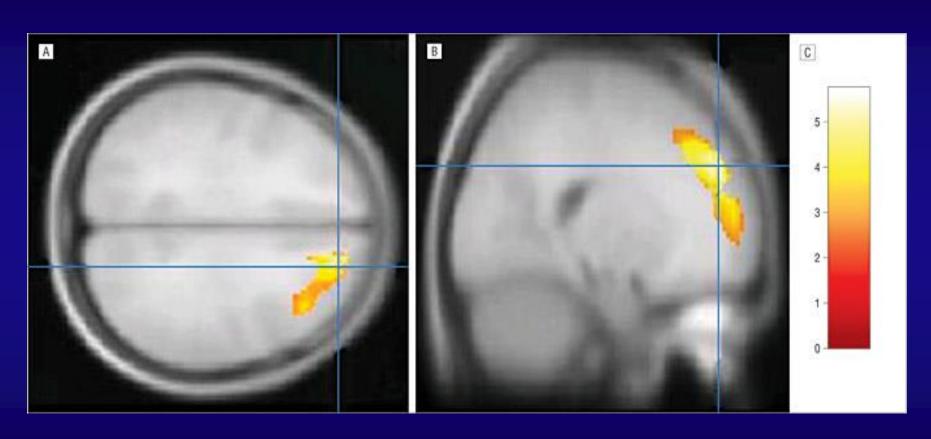
Challenge Studies in PD

- PD sufferers susceptible to challenge with
 - Lactate infusion
 - CO2 inhalation
 - Yohimbine
 - Cholecystokinin
 - Caffeine
 - Isoproterenol
 - Suggest multiple abnormalities but not which is central to PD

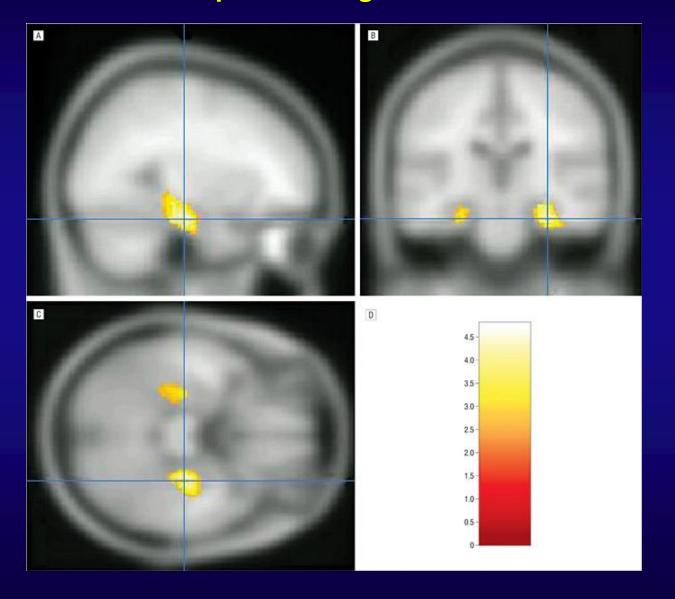
GABA-A- BZ Receptor Alterations in PD Significant Evidence for Altered Distribution and Sensitivity

- Reduced sensitivity to i.v.diazepam
 - Roy-Byrne et al Am J Psychiatry. 1996;153:1444-1449
- Flumazenil anxiogenic in PD
 - Woods et al Psychiatry Res. 1991;36:115-127
- Reduced GABA in occiptal cortex
 - Goddard et al, AGP 2001; 58:556-61
- Reduced GADA A binding in insular cortex
 - Cameron et al, AGP 2007;64:793-800

Regional Differences Right Dorsal Anterolateral PFC: Decreased BZ Binding in PD



Regional Differences Hippocampus and Parahippocampal Region BZ Receptor Binding Increased in PD

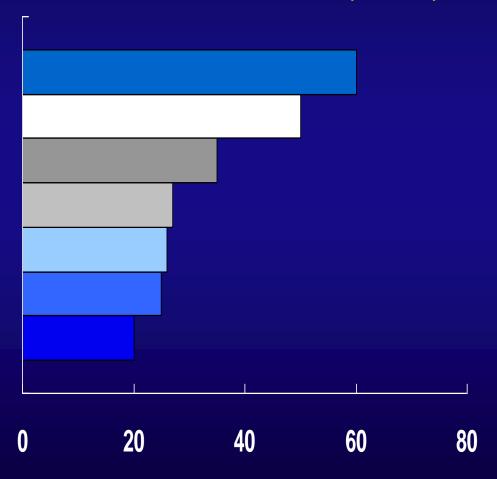


Hasler, G. et al. Arch Gen Psychiatry 2008;65:1166-1175.

Morbidity of PD:

Epidemiological Catchment Area (ECA) Survey

Depression
Social impairment
Poor health perception
Financial dependence
Emergency room visits
Alcohol abuse
Suicide attempts



Increased Medical Utilization in PD Top 10% of Users

Odds ratio of ≥ 5 MD visits

		Males	Female
•	MDE	1.5	3.4
•	Panic disorder	8.2	5.2
•	Phobic disorder	2.7	1.6

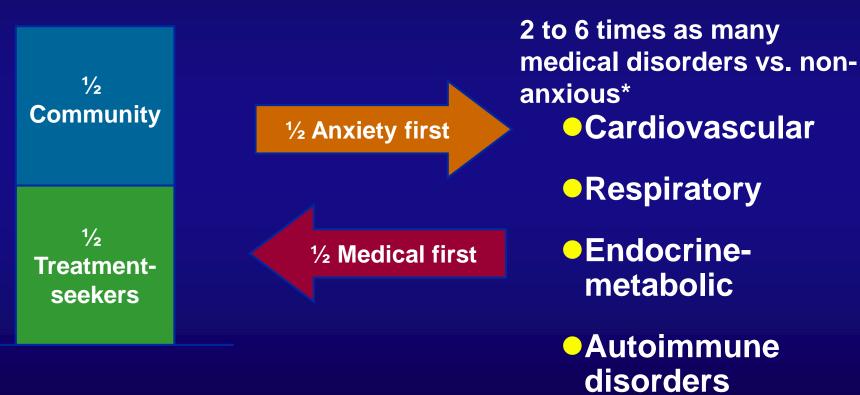
Simon and Von Korff, 1991

Panic Disorder: worsened by stress and acts as a stressor

- Panic disorder resembles unpredictable stress
- *Criteria for stressor:
 - Perceived threat or challenge
 - Perceived inability to control it
- Elevated plasma pro-inflammatory cytokines/stress mediators

WORRIED SICK? Health Problems with Anxiety Resemble Those Associated with Stress

≈300 Individuals With PD or GAD



^{*}Controlled for gender, depression, substance abuse.

Harter MC, et al. Eur Arch Psychiatry Clin Neurosci. 2003;253:313-320; McEwen BS. Biol Psychiatry. 2003;54:200-207.

Comorbidity

Comorbid Conditions
Provide Important
Clues

- Clinical characteristics and severity
- Course and outcome
- Treatment response

PD + Major Depression

- Over 50% have melancholia
- More Anxiety
- More Depression
- More Phobia
- Longer Course of Illness
- Suicide risk twice either disorder alone

Roy-Byrne et al Br J Psychiat 2000;176:229-35

Family History

- Panic and other anxiety disorders
- Depression
- Alcoholism
- Suicide
- Treatment and outcome results if known

Panic Disorder

Evaluation

The Diagnosis?

- Assess panic attacks
 - Unexpected vs. "cued" (stimulus-bound)
 - How frequent and severe ?
- Cognitive distortion or behavior change ?
 - Fear of consequences or implications of PAs?
 - Are there lifestyle / behavioral changes?
- Avoidance or dread due to fear of another panic attack?

Panic Disorder Differential Diagnosis

- Different or Comorbid Anxiety disorder with Pas
- Depression-Other comorbid disorders
- Substance Abuse
- Medical Condition
- latrogenic
- Other

Other Relevant History

Psychosocial stressors

Occupational, Social, Family Role Impairment

Medical Evaluation of PD

<u>History</u>

- Complete description of physical symptoms
- Medical history
- Family history
- Drug and medication history
- Dietary history, esp caffeine from all sources (include Mountain Dew, colas, iced tea, etc)

Medical Evaluation of PD

- Physical Examination
- EKG
- Laboratory
 - CBC
 - Electrolytes, BUN, Creatinine, Glucose
 - Urinalysis
 - T₄ and TSH

Indicators for Further Medical Evaluation

- Panic attacks clearly and consistently related in time to meals
- Loss of consciousness
- Seizures, amnestic episodes
- Symptoms similar to panic attacks but without the intense fear or sense of impending doom (non-fear panic attacks)
- Unresponsiveness to treatment
- True vertigo

PD: Patient Approach

Don't panic--this only feels like an emergency

- Positive diagnosis is critical
 - Many told there is nothing wrong.
- Relieve the patient of perceived failure to overcome alone; discuss inherited risk
 - "It's not your fault--anyone would feel like you do if they had panic attacks."
 - "You have had a normal human response to terrifying symptoms. They are frightening but not dangerous."

- Patient Education
- Disease management is the goal like diabetes or asthma
- Immediately and repeatedly re-frame attacks as 'Distressing but not medically dangerous.'
- Include significant other or family to educate about PD
- Warn about about limiting caffeine intake

- Be patient
 - Repeat as needed
- Be thorough, credible and realistic
 - Outline a plan and pattern of improvement expected
 - Same as order of symptom onset relief (panic attack→phobia)
 - Time frame for getting better vs. back to normal are not the same

- Address medication treatment duration as soon as it presents
 - Doctor, how long will I need to take the medicine?
- Re-frame treatment as a way to be independent, not dependent
- Eyeglasses example:
 - Do you expect that your eyes 'learn' to see after a few months?
 - Are you worried that you will become addicted to them?

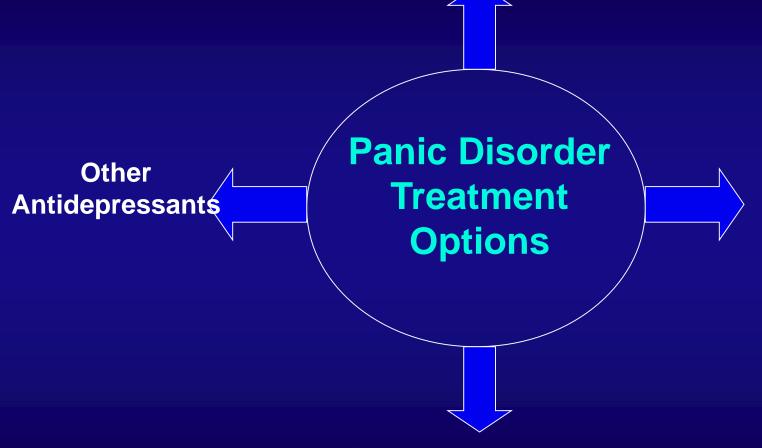
- Collaborative approach promotes less perceived threat and lack of control
- Map out "the plan", document treatment
 - usual dose needed, necessary duration, how you will deal with possible adverse effects
- Give the patient some control
 - You: "I will help you steer the car, but you will control the gas pedal as we drive toward our goal. We will get there eventually."

Initial Goals to Outline

- Reduce and stop unexpected attacks (unexpected)
- Situation-bound attacks
- Fearful anticipation
- Fearful (phobic) avoidance
- Distorted, catastrophic cognitions

Antidepressants





CBT Alone

CBT +Meds

Benzodiazepines

Novel Agents



Outcome Assessment

- Functional status is key issue !!
- Panic attacks alone-- least useful measure
 - They don't correlate with other domains
- PDSS-Gold Standard Assesses Multiple Domains
 - Shear et al Panic Disorder Severity Scale. Am J Psychiatry 1997; 154:1571-1575 panic frequency, severity, phobia, impairment
 - Other symptoms to target and follow
 - Phobic avoidance
 - Cognitive distortion
 - Depression
 - Somatic symptoms

CBT: Pros and Cons

Advantages

- 70%-85% efficacy
- May have low relapse rate when discontinued
- Most people like it
- Time-limited
- Overall low price
- Few adverse effects

Disadvantages

- Harder to administer than medication
- Limited availability
- More effort than taking medication
- Lack of third-party coverage
- Not all patients willing or able
 - Cognitively impaired
 - Severe disorders

CBT for PD

- Based upon empirical evidence for fear of bodily sensations in panic disorder
- Target 1: Decrease physical sensations
 - Technique: Breathing retraining
- Target 2: Interrupt catastrophic misinterpretation of bodily sensations
 - Technique:Cognitive restructuring
- Target 3 Decrease conditioned fear of bodily sensations
 - Technique Interoceptive exposure
- Target 4: Exposure to feared situations
 - Technique-Hierarchy least to most feared, in that order

Treatment: General Principles

- SSRIs or *SNRI First Line
 - Other ADs work
 - MAOIs
 - Benzodiazepines
 - Not reliably antidepressant
 - Beta-blockers useful adjunctive Rx
 - Not adequate as monotherapy



Efficacy of PD Pharmacotherapy Agents/ Classes with Proven Efficacy*

PD	GAD	SAD	PTSD
SSRIs	SSRIs / SNRIs	SSRIs	SSRIs
BZD	BZD	Venlafaxine	MAOIs
TCAs	TCAs	BZD*	TCAs
MAOIs	Buspirone	MAOIs	Mirtazapine
Venlafaxine	Trazodone	Clomipramine	Nefazodone .
		Gabape Not eliably antidepressant	

^{*}Consideration includes comorbid disorders

Not all agents in all classes approved by FDA but all empirically supported in RCTs;

duloxetine not yet studied



Therapies With Limited or No Proven Efficacy in PD

GAD PD SAD **PTSD** AEDs* **AEDs AEDs AEDs Atypical NLs ±** Bupropion **Atypical NLs Bupropion** CMI- but not other TCAs Bupropion **Mirtazapine Buspirone** Buspirone (adjunct) **TCAs Mirtazapine** Trazodone

^{*}AEDs-antiepileptics-gabapentin. topiramate . levetiracetam NL= neuroleptic





Adverse Effects of PD Pharmacotherapy

SSRIs, Novel ADs

Activation, sexual dysfunction, weight gain

Benzodiazepines

Not antidepressant, physiologic dependence/ potential withdrawal, initial coordination, sedation, fear of addiction

TCAs

Limited breadth of efficacy, activation, cardiovascular adverse effects, overdose danger

MAOIs

Diet / drug interaction, postural hypotension, hyposomnia, weight gain, sexual dysfunction, overdose danger

Selection Considerations

- Evidence for efficacy
 - Historical success in that pt
- Safety
- Tolerability
- Half-life
- Drug-drug interactions
- Protein binding



PD Medications That Don't Work

- Bupropion (Wellbutrin)
- Trazodone (Desyrel)
- Buspirone (Buspar)
- Neuroleptics*
 - Some evidence for atypical neuroleptics
- Beta-blockers



PD: SSRIs -First Line" *

- Efficacy ~ 50-70% for each SSRI
- Different patients may respond to different SSRIs
 - Try ≥ two SSRIs before switching class
- Initial dose = 1/4 to 1/2 initial antidepressant dose- (or less!)
 - Fruit Juice ("Cran-zac", "Applezac"), water, applesauce to allow small initial dose
- Final dose may be more than 2x antidepressant dose



SSRIs for PD: Advantages

- Wide safety margin
- Relatively low side effect profile
- Broad spectrum of mood and anxiety efficacy
- No significant cardiovascular effects
- No or minimal anti-cholinergic effects



SSRIs For PD: Disadvantages

- May have delayed onset
- Initial activation
- Sexual side effects -25-60%
- Weight gain over 3-12 months in small but clinically significant subgroup



SSRIs

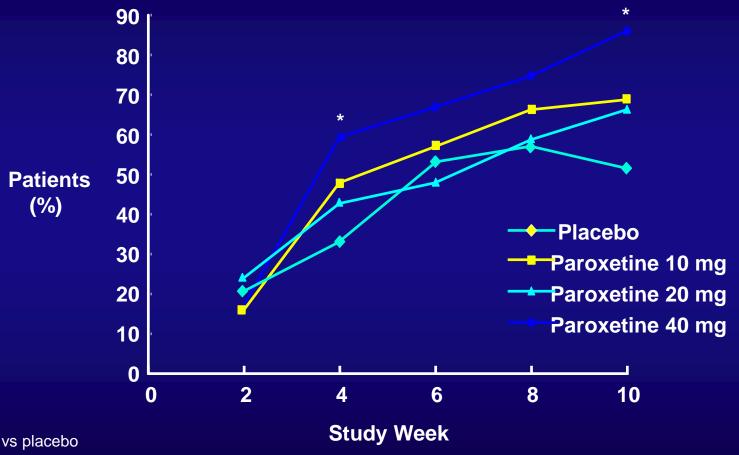
Initial dose (reduce activation risk)

- (25–50% antidepressant dose)
- Sertraline 12.5–25 mg
- Paroxetine 10–20 mg
- Fluoxetine 5–10 mg
- Fluvoxamine 25–50 mg
- Citalopram 10–20 mg
- Escitalopram 5-10
- Effective antidepressant dosage level may be higher



Percent Patients Attaining Panic-Free Status Paroxetine Fixed-Dose Study

The 40 mg dose was statistically better than placebo. 10 and 20 mg were not, but were effective for many--no one dose dose is THE dose for 'all patients

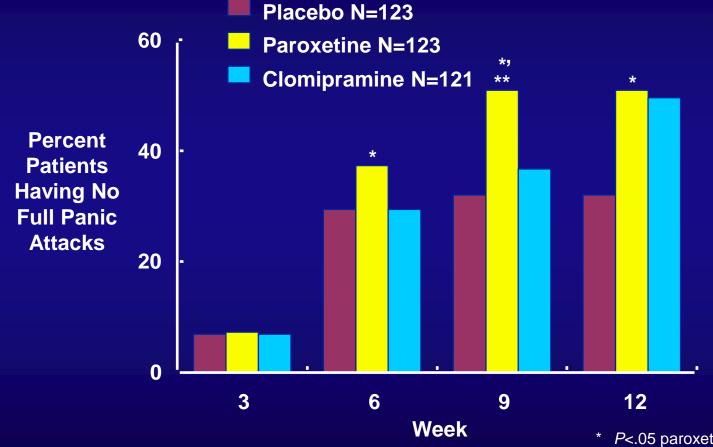


**P*<.019 vs placebo

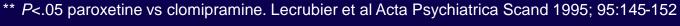
Ballenger et al. Am J. Psychiatry1998; 155:36-42

Paroxetine vs Clomipramine[†] **Treatment Of PD**

CMI patients had higher dropout rates due to side effects

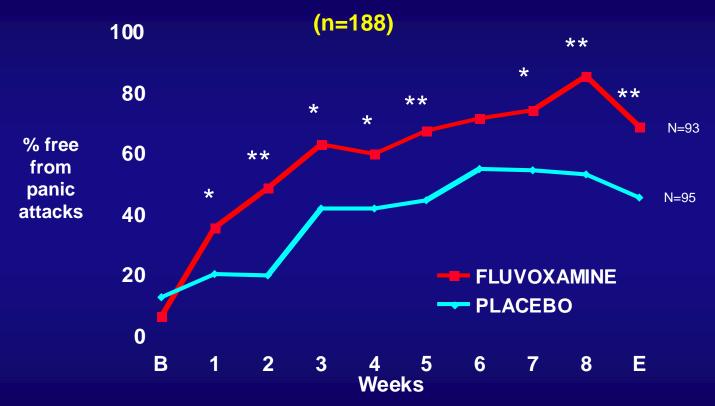


^{*} *P*<.05 paroxetine vs placebo.





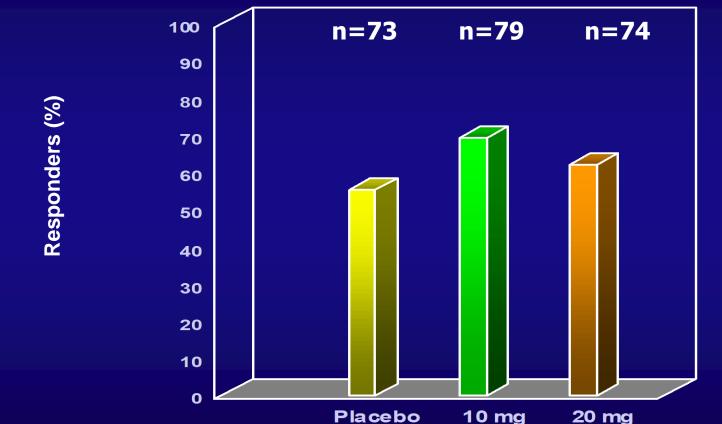
Fluvoxamine vs Placebo % Free from Panic Attacks



^{*} p < 0.05*; *p < 0.01 vs placebo



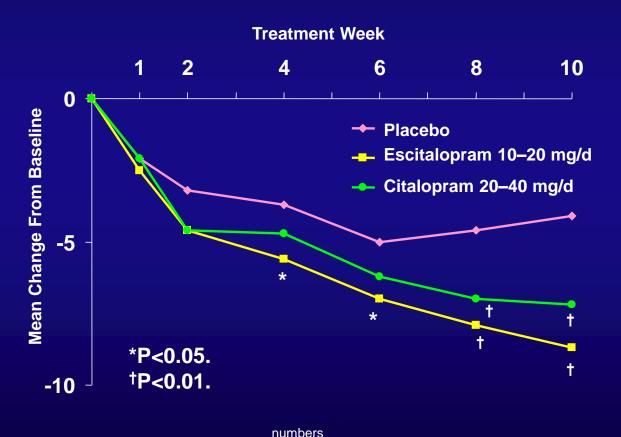
Panic Disorder: 10 Weeks' Treatment Fluoxetine 10 or 20 mg vs Placebo: CGI Responders





Escitalopram Treatment of Panic Disorder

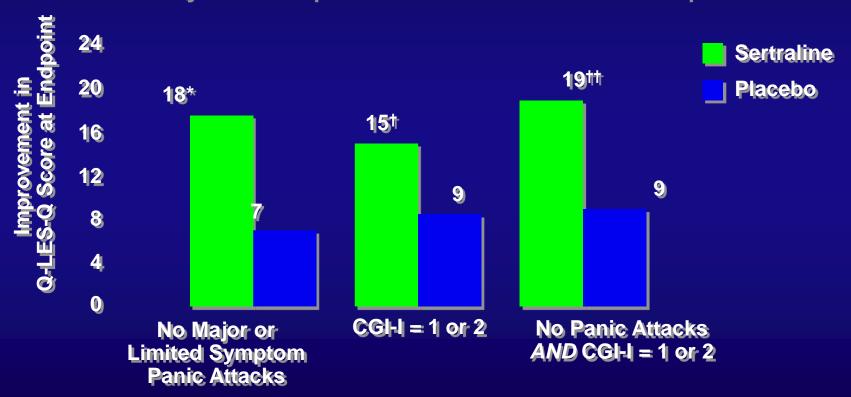
Panic and Agoraphobia Scale





Quality of Life Measures-A Better Way to Assess Outcome?

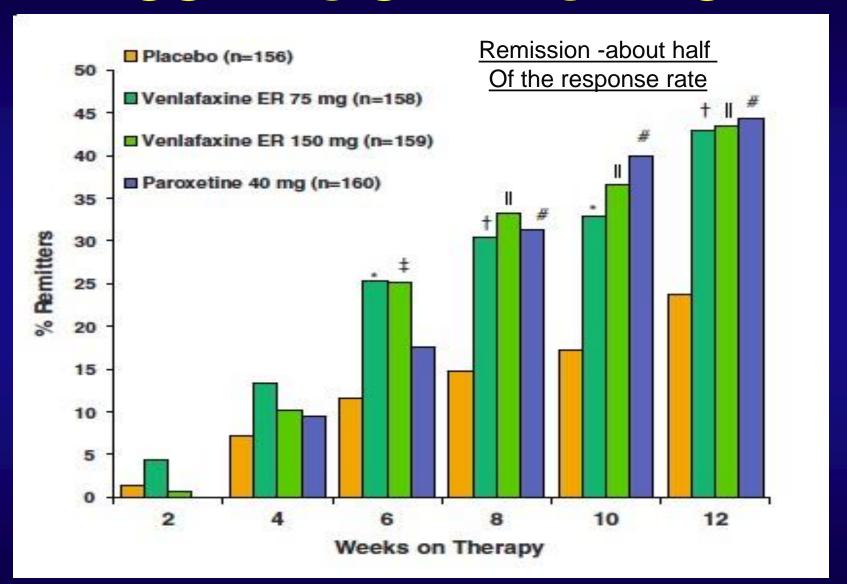
Sertraline Responders Report Significantly More Quality of Life Improvement Than Do Placebo Responders



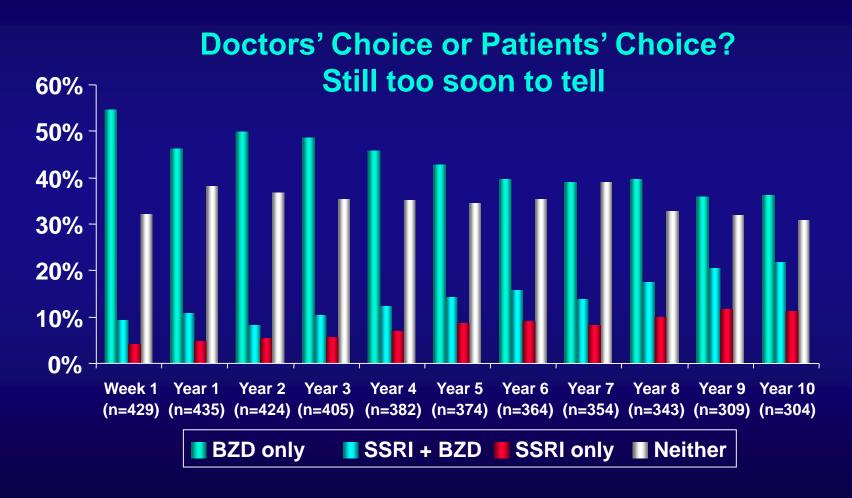




SSRI vs SNRI vs PBO



Long-term Pharmacotherapy Received by PD Patients (1989–2001)





TCAs: Advantages

- Antidepressant
- Volume of clinical experience
- Imipramine Rx--[imipramine + desipramine] ≥ 100 ng/ml likely effective for many patients

TCAs: Disadvantages

- Delayed onset of action
- Significant side effects burden
 - Jitteriness--start with 10 mg daily
 - Weight gain
 - Sexual dysfunction 25-40%
- Anticholinergic effects
- Cardiotoxicity
- Danger with overdose
- Not useful for social anxiety disorder



Antidepressant Discontinuation

- Gradual taper (≥ 2 months)
- Properties of agent affect timing and severity of discontinuation Sx
 - Shorter t 1/2 -earlier
 - No active metabolite-earlier
 - Extended release formulation does not protect



Discontinuation/Withdrawal Symptoms Following SSRI Treatment

- Anxiety/agitation
- Lightheadedness
- Insomnia
- Fatigue

- Nausea
- Headache
- Sensory disturbance

Benzodiazepines: Advantages

- Effective
- Rapid onset
- Tolerability
- Safety



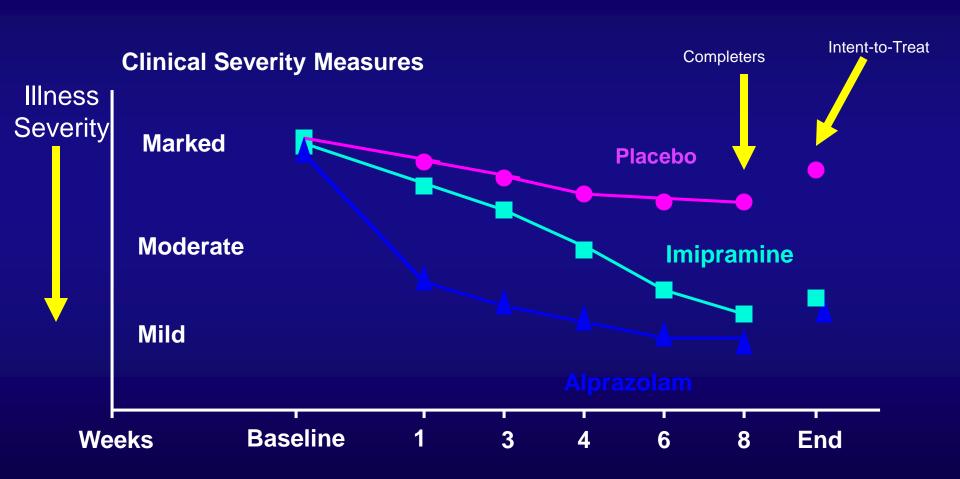
Benzodiazepines: Disadvantages

- Not antidepressant
- Physiologic dependence
- Sedation and coordination problems
 - (2 4 weeks)
- Subjective memory loss
 - Inconsistent empirical evidence



Comparative Efficacy of Alprazolam, Imipramine and Placebo in 1080 Panic Disorder Subjects

(Diagram reflects general pattern of improvement in clinical measures over 8 weeks)



Cross-National Collaborative Panic Study Br J Psychiatry 1992 Nov;161:724

Benzodiazepines: Long-Term Follow-up

- 60 PD patients
- 2.5 year average follow up
- Alprazolam Rx + behavioral group
- 18 (30%) discontinued
- 36 (60%) lower dose
- 3 (5%) same dose
- 3 (5%) increased dose



Polypharmacy-SSRI plus:

Benzodiazepines

Jitteriness, anticipatory anxiety, insomnia

Beta Blockers

Tremor, palpitations, sweating

Bupropion

Sexual side effects



Definition of Response

Symptoms

- Panic attacks: at least 50% decrease
- Other PD symptoms clearly much or very much improved (anticipatory anxiety, phobic symptoms)

Time frame

- to response: 6-12 weeks
- of response: 4 -8 weeks



Definition Remission

- Full recovery of pre-morbid functioning
- Full relief of symptoms
- No panic attacks (or not more than 1 mild one in a 4-8 week period)
- No clinically significant anxiety
- No clinically significant phobic symptoms
- Lasting remission may be elusive due to undulating course of illness



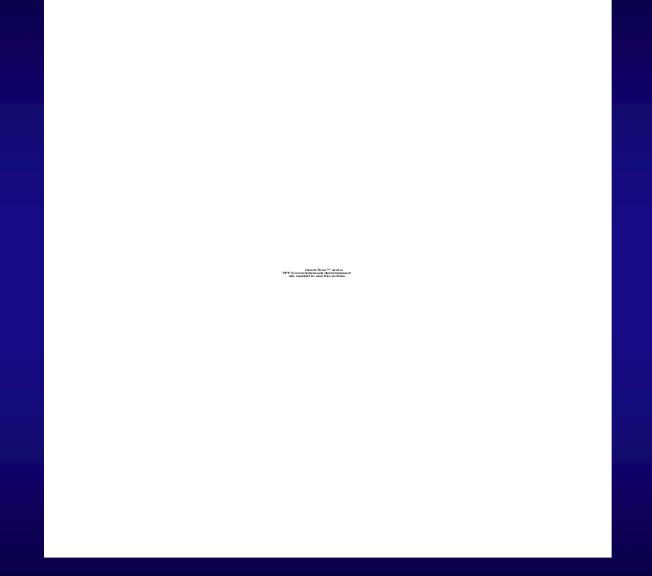
Inadequate or Non-response

- Identify element (s) unimproved
 - Panic attacks, avoidance, anticipatory anxiety, depression
- Medication dose and duration inadequate?
 - No-->Increase?
 - Yes-->Augment?
 - Yes-->Change?
- All adequate?-->Add CBT
- Reconsider diagnosis

Resistant Panic Disorder - Approach

QuickTime™ and a TIFF (Uncompressed) decompressor are needed to see this picture.

Dosing Suggestions for Panic Disorder



Who needs Long-term Treatment?

- The majority of patients need long-term Rx
- Relapse rates after discontinuation of medication significant
 - -60% within 3-4 months after stopping meds*
 - CBT may assist in successful discontinuation
- Tapering medication should be <u>very gradual</u> and correlate with duration of treatment (2-6 months**)

*Relapse may be higher for BZ monotherapy

**Optimal taper may be longer after long-term BZ



Effective Long-term Treatments for Panic

- SSRIs and other antidepressants
 - Preferred for long-term treatment
- Benzodiazepines
 - Monotherapy effective; risk for emergent depression
- Novel agents (anticonvulsants)
- CBT
- Combination



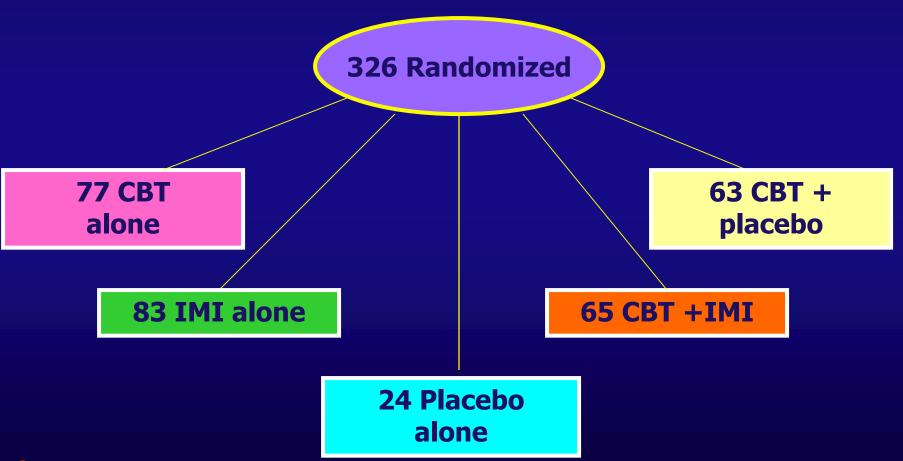
Combination Treatments

Meds + CBT

Meds + Meds



CBT, IMI or CBT +IMI Treatment for Panic Disorder

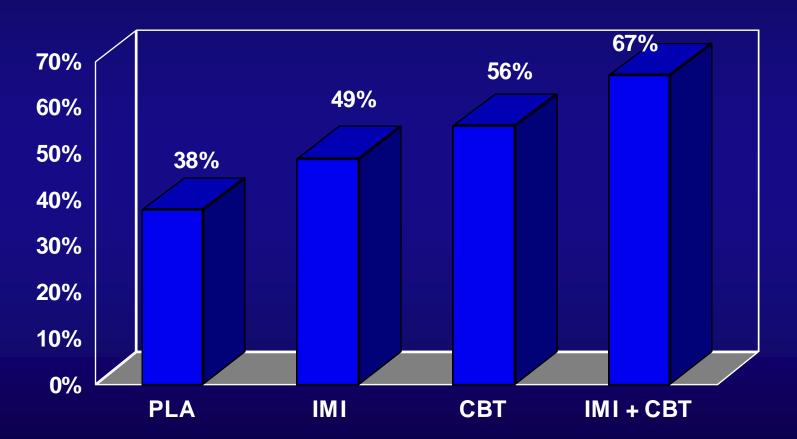




3-Month Responders

Multicenter Comparative Treatment Study

(intent-to treat)



 X^2 p =0.03; C+I vs I: p = 0.03; C+I vs P p = 0.02;



Meta-Analysis of Combined Treatments for PD

- 106 Studies, short-term treatments
- N= 5011 Pre-Rx, 4016 Post-Rx
- 222 Treatment conditions
- Variables were
 - med alone
 - med + exposure in vivo
 - placebo + exposure in vivo
 - exposure in vivo plus psych management

Van Balcom et al JNMD1997 185:510-16

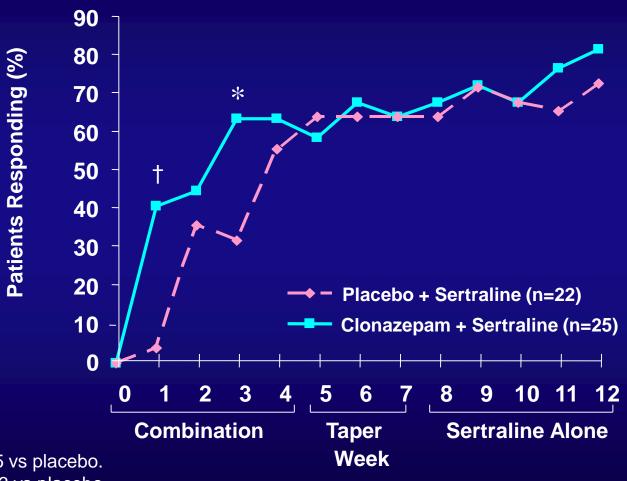


Meta-Analysis of Combined Treatments for PD

- All treatments superior to placebo conditions for agoraphobic avoidance; CBT = other treatments
- Antidepressant superior to PBO for panic attacks
- Exposure not effective against panic attacks but worked for agoraphobia

Combining Medications For Panic Disorder

Sertraline + Clonazepam or PbO



^{*} *P*<0.05 vs placebo.

Goddard et al. Arch Gen Psychiatry. 2001;58:681.



 $^{^{\}dagger}P$ <0.003 vs placebo.

Atypical Neuroleptic Monotherapy for Anxiety

- FDA did not approve indication for quetiapine monotherapy for GAD or MDD (April,2009)
 - Despite positive short-term studies
- Risk for continuous exposure did not warrant approval
 - Sudden death
 - Dose-related for both atypicals and typicals
 - ♦ Samples of >40,000 each group
 - Former users -- no increased risk
 - Metabolic consequences
 - Illness being treated long-term may contribute

Sudden Death Ray et al NEJM 2009; 360:225-35

This section is optional -prn use

Benzodiazepines-

Lots of heat, little light

Benzodiazepine Pearls

- Benzodiazepines
 - Abuse in anxious patients <u>very</u> <u>rare</u>
 - Tolerance to anxiolytic effects very rare
 - Lower maintenance than acute doses often sufficient
 - Altered and lower number of BZ receptors in PD--higher doses may be needed



Patients Can Discontinue BZs if:

- Motivated and well-informed about taper plan
- Clinician concurs
- No stressful events expected
- Very gradual taper is used
- Patient understands that
 - Return of original Sx is NOT FAILURE
 - Continued Rx may indicated



Discussing Patient Concerns About Dependence

- Patients often express concerns about becoming dependent on medication
- Question: is it worth it to wear eyeglasses?
 - Should you expect to continue to see properly after 6-12 months?
 - If you could not see as well, would you feel as if you were "dependent" on glasses?
- Use other medical analogies, such as utilizing insulin for diabetes or inhalers for asthma



Withdrawal and Dependence

- Physiologic Dependence
- Physiologic adaptation produced by repeated administration of a drug, necessitating continued administration to prevent the appearance of discontinuation symptoms.
- Can occur with antidepressants, other agents



Addiction and Abuse

Medical vs Non-medical Psychoactive Substance Use

See also notes section on Additional Resources slide



Medical vs Nonmedical Use

	Medical Use	Nonmedical Use
Intent	To treat diagnosed illness	To "party" or to "treat" distressing effects of alcohol or other drug abuse
Effect	Makes life of user better	Makes life of user worse
Pattern	Stable, medically sensible	Unstable, usually high dose
Control	Shared honestly with physician	Self-controlled
Legality	Legal	Illegal (except alcohol use by adults)



Key Features of Addiction



Use eyeglasses and heroin addiction as models to help illustrate to patient what is and is not addiction



Time to Stop? Using the BZD Checklist

Problem being treated

- Does problem justify continued use of BZD?
- Has patient significantly benefited from BZD treatment?

BZD use

- Does patient's use of BZD remain within prescribed limits and duration of treatment?
- Has the patient avoided the use of other prescribed or nonprescribed agents?





Using the BZD Checklist

Toxic behavior

- Has the patient been free of any signs of intoxication or impairment from the use of the BZD medication, either alone or in combination with other agents?

Family monitor

Does the patient's family monitor confirm that there have been no problems with BZD use and that the patient has benefited from the use of the medication?



How to Discontinue Medication for Panic Disorder

Step 1: Patient and physician alliance

Step 2: Taper — Symptoms — Wait 2-3 weeks*

Symptoms — Continue taper

persist disappear taper

May need to continue treatment*

 Symptoms may be withdrawal or reemergence of panic



BZ Taper Outcome

- Panic-related symptoms which stably persist reappear during taper
 - Clinically informative outcome of taper attempt
 - Indicate that continued Rx necessary
- Options
 - Continue pharmacotherapy
 - Add CBT, attempt taper again later
 - Combined



BZ Taper Strategy

- ~10% reduction in dose / 2-3 wks
 - No more than 25% per week
- At 50% of initial dose, slow taper
- Short-acting BZ: Maintain multiple daily doses to minimize plasma level fluctuations
- Switch to long-acting agent may be useful but probably not necessary
- CBT may enhance taper success



Recurrence of Sx during Taper Suggested Strategy

- Stop taper
 - May increase dose to tolerable discomfort level
- Hold at same dose 2-4 weeks
 - If Sx Persistent = Probably Panic-related
 - If Sx gone= Probably BZ taper -related
- New Sx more likely withdrawal
 - Sensitivity to noise and light
 - Dysesthesia, others



Is Long Term BZ for Panic Disorder Acceptable?

- PDR: BZ are ok for 4 months--
 - Then what???
- American Psychiatric Association Formally Supports Use of Long-term BZ As Needed (Salzman)
 - For Panic Disorder, GAD
 - Intolerance to other meds
 - Incomplete response

Long Term BZ May Be Justified

- Document rationale for long-term requirement in record
- Significant other(s) can corroborate if:
 - Continued benefit
 - No non-medical BZ use (abuse)
 - No BZ-related toxicity
- Consultation from colleague to document medico-legal and clinical clarity



Pearl: If it's Anxiety, there is risk for Depression

Pearl: When in Doubt, Treat as if Depression was Imminent

Summary Treatment Decisions

- Initial pharmacotherapy: SSRIs
- Start with low dose
- Use ≥ 2 different SSRIs before changing classes
- Utilize CBT to reduce attrition, reduce fear of bodily sensations, eliminate phobic avoidance, and facilitate discontinuation of medication

Summary

- "If it quacks like a duck and waddles, it is likely a duck."
- Panic disorder is common and disabling, and is treatable
- Under-recognized and under-treated
- Functional status -NOT panic attack frequency to assess outcome

Additional Resources

- Anxiety Disorders Association of America
 - www.adaa.org
- National Institute for Mental Health: Anxiety Disorders
 - [SEP] www.nimh.nih.gov/anxiety/anxietymenu.cfm[SEP]
- See notes section on this slide for review of benzodiazepine use

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True or False

Males Have a Higher Lifetime Frequency of Panic Disorder in the U.S. as Compared to Females.

True or False

When PD and MDD co-exist, the risk for suicide attempts increased

Panic Disorder increases the risk for other psychiatric disorders: GAD, OCD, social anxiety disorder, major depression

Which usually precedes panic disorder?

What is the APA recommend as

First Line Pharmacotherapy for Panic Disorder?

Which sub-cortical structure is the critical brain nucleus for fear conditioning?

False!

Female – 5% Lifetime Frequency

Male – 2% Lifetime Frequency

True, True, and True!

Social Anxiety often precedes panic disorder

SSRIs

Amygdala