Social Anxiety Disorder/Social Phobia

R. Bruce Lydiard, PhD, MD

Clinical Professor of Psychiatry
University of South Carolina
and
Director, Southeast Health Consultants
Charleston, SC
www.mindyourhealth.net

James Ellison, MD

Harvard Medical School
Associate Professor of Psychiatry, Harvard Medical School
Clinical Director of the Geriatric Psychiatry Program
McLean Hospital
Belmont, MA

"The human brain is a wonderful thing. It operates from the moment you're born, until the first time you get up to make a speech."

-Howard Goshorn

Social Anxiety Disorder (SAD) Outline

- Definition
- Relationship to Other Psychiatric Illnesses
 - Treatment

What are the 2 Social Anxiety Disorder (SAD) Subtypes?

Which SAD Subtype would be Described as...

- More Common
 - Familial
 - Earlier onset
- Greater Impairment
- Lower Remission Rate

True or False

Patients with SAD are more likely, as compared to those without SAD, to do the following...

- Remain Single
- Not Finish High School
 - Earn Lower Income

What are three psychiatric illnesses that are commonly comorbid with SAD?

What is First Line Treatment for SAD and... Does it vary between the 2 Subtypes?

Teaching Point #1

Social Anxiety Disorder has TWO SUBTYPES:

Early Onset Generalized Familial Subtype

Later Onset Non-Generalized Non-Familial Subtype

Teaching Point #2

Social Anxiety Disorder (SAD) usually has

ONE or more COMORBID
Psychiatric Illnesses

with SAD usually PRECEDING the Comorbidity

Teaching Point #3

Pharmacologic Treatment varies between the two Subtypes...

Generalized Type -

SSRI or SNRI

Non-Generalized Type -

PRN Pharmacotherapy Targeting Symptoms

Social Anxiety Disorder Part One

Definition

Social Anxiety Disorder is Not New

Symptoms as Described by Hippocrates:

[A man who] "through bashfulness, suspicion and timorousness, will not be seen abroad; ... his hat still in his eyes, he will neither see nor be seen by his goodwill. He dare not come in company for fear he should be misused, disgraced, overshoot himself in gestures or speeches or be sick; he thinks every man observes him."

Robert Burton: Anatomy of Melancholy (1652)

Social Anxiety Disorder, also known as...

Name Author

Ereuthrophobia Casper, 1842

Kontacktneurosen Stockert, 1929

Tai-jin-kyofu Morita, 1932

Social Neurosis Shilder, 1938

Social Anxiety Neurosis Myerson, 1945

Social Phobia Marks, 1968

Social Anxiety Disorder (SAD)

Is Included in the DSM-IV and can be summarized as follows...

- Fear that Performance will lead to Embarrassment, Exposure, and Scrutiny with
- Exposure to Feared Situation Predictably
 Eliciting Anxiety
 resulting in
- Avoidance, or the Endurance of Distress in most Social Interactions

The patient with SAD knows the Fear is Excessive

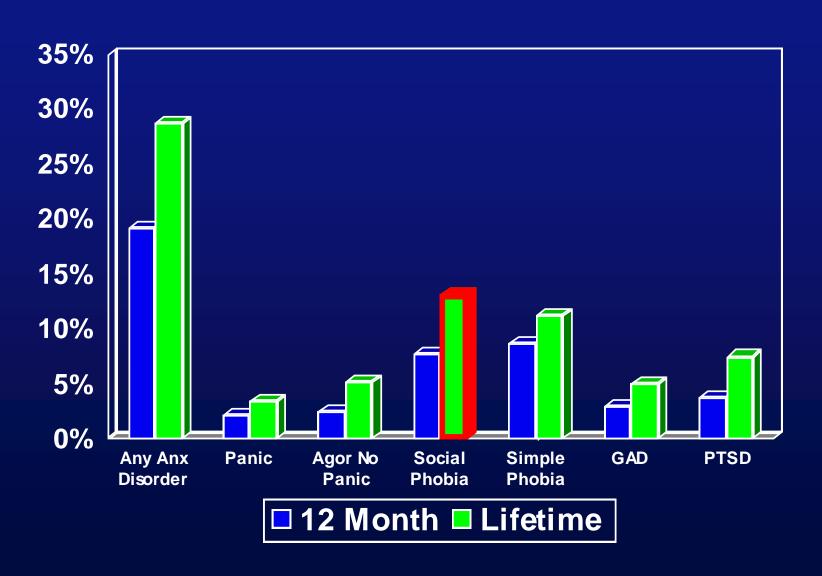
but

Continues to Suffer Interference in Occupational, Social, and Familial Roles

Important to Note...

If there is a General Medical Condition (colostomy) or **Mental Disorder (rituals in OCD** or Anorexia) present which has the potential to be **Embarrassing, the Fears Associated with these** situations are not considered in a diagnosis of SAD

SAD has the **Greatest Lifetime Prevalence** as Compared to Other Anxiety Disorders



Two SAD Subtypes

- Generalized Subtype
- Non-Generalized Subtype

Generalized (~70%)

- Pervasive Social Fears, Avoidance
- Early Onset
- Familial
- More Comorbidity
- More Impairment
- Low Remission Rate
- Requires Chronic Treatment

Non-Generalized (~30%)

- Limited SocialFear
- Later Onset
- Not Familial
- Less Comorbidity
- Limited Impairment
- Remission Not Unusual
- PRN TreatmentAdequate

Typical Social Fears

Social Type Fears

- Attending Social Events
- Conversing in a Group
- Speaking on Telephone
- Interacting with an Authority Figure
- Making Eye Contact
- Ordering Food in a Restaurant

Performance Type Fears

- Public Speaking
- Eating in Public
- Writing a Check
- Using a Public Toilet
- Taking a Test
- Trying on Clothes in a Store
 - **Speaking up at a Meeting**

Non-Generalized Subtype may have only One or Two of the Above. Generalized Subtype may have Most of the Above.

Typical Symptoms in Social Anxiety

- Physical Symptoms
- Tachycardia
- Trembling
- Blushing*
- Shortness of Breath
- Sweating*
- Abdominal Distress
- Socially-Cued Panic Attacks

- Cognitive Patterns
- Exaggerated Fear of Negative
 Evaluation, Sense of Scrutiny
- Misinterpretation of Social Cues

Stereotypical Behaviors

- Avoidance
- Freezing

SAD and Distress

Physical Symptoms that are
Usually the Most
Bothersome and Feared
are Those that are
Perceived as Visible to
Others.

The Course of SAD...

- Chronic
- Modal Onset at 13 years
- Average Duration at Diagnosis is 20 Years
 - Only 27% of Recover

Patients with SAD, as compared to those without SAD, often...

- Fail to Finish High School
 - Earn Lower Income
 - Remain Single
- Have No Skilled Occupation
 - Live with Parents

Differential Diagnosis of SAD

- Avoidant Personality Disorder
- Panic Disorder / Agoraphobia
- Posttraumatic Stress Disorder
- Depression-Related Social Avoidance
 - Atypical Depression
 - Schizotypal / Schizoid Personality Disorder
 - Body Dysmorphic Disorder

It Is Important to Distinguish Between the Different Anxiety Disorders

Key Diagnostic Questions can be Helpful

Key Diagnostic Questions

- Do you Experience Anxiety or Fears?
- Do you Consider your Fears Excessive?
- Are you Afraid of Situations such as Speaking in Public? Social Events? Crowds?
- Do you Fear...
 - Being Watched Closely While Doing Something?
 - Being Humiliated or Embarrassed?
 - Sweating, Blushing?

It is Important to Distinguish between the Anxiety Disorders...

SAD vs. Panic Disorder

Disorder	Common Fear	Key Concerns	Example
SAD	Fear of Negative Evaluation or Humiliation in Social Situations	Public Scrutiny	Avoids speaking, eating, using restrooms only in public
Panic Disorder	Fear of having a Heart Attack, Dying, or "Going Crazy"	Sudden, Unexpected Panic Attacks Alone or in Public; Not Limited to Social Situations	Attacks last about 10 Minutes, including Chest Pain, Fear of Dying, Smothering Sensations; Avoidance of Places Where Attacks have Occurred

SAD vs. Agoraphobia

Disorder	Common Fear	Key Concerns	Example
SAD	Fear of Negative Evaluation or Humiliation in Social Situations	Public Scrutiny	Avoids Speaking, Eating, Using Restrooms only in public
Agora- phobia	Fear that Help Won't be Available or Escape Won't be Possible	Being Caught in A Situation Where Escape may be Difficult	Avoids being Alone, Away from Home, in a Crowd, Traveling in a Car

SAD vs. Generalized Anxiety Disorder (GAD)

Key Concerns Example Disorder **Common Fear Public Scrutiny** SAD Fear of Negative Avoids Speaking, **Evaluation or** Eating, Using **Humiliation in Social** Restrooms; only in public **Situations** Fear of Everyday Anxiety Shifting Worries Almost Generalized Routine / Life Constantly about From One Anxiety Routine, Éveryday Disorder Circumstances Concern To Another - No Matters Fear of Social

Situations

Something To Consider... SAD and Adolescents

Have High Index of Suspicion in Adolescents with New Onset of:

- Depression
- Truancy and Other Conduct Problems
 - Substance Abuse

Social Anxiety Disorder Part Two

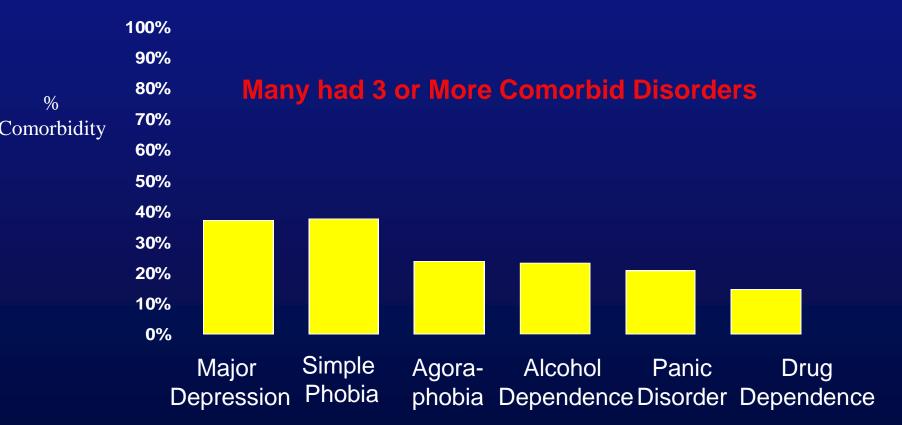
Relationship to Other Psychiatric Illnesses

(Comorbidity)

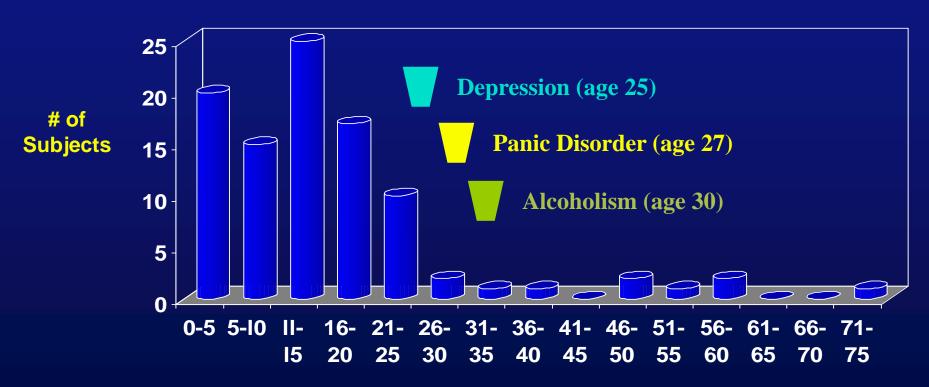
Comorbidity

- More Often Seen in Generalized Subtype
 - 80% of Patients with SAD Report at Least One other Psychiatric Disorder
 - SAD Typically Occurs First

~ 80% of Patients with Generalized Subtype have 1 or More Comorbid Psychiatric Disorder

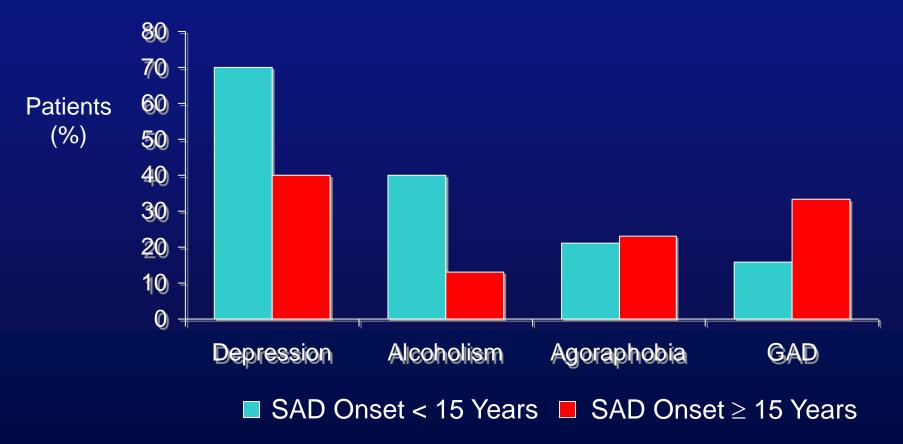


Age of Onset of Disorders Co-Existing with SAD

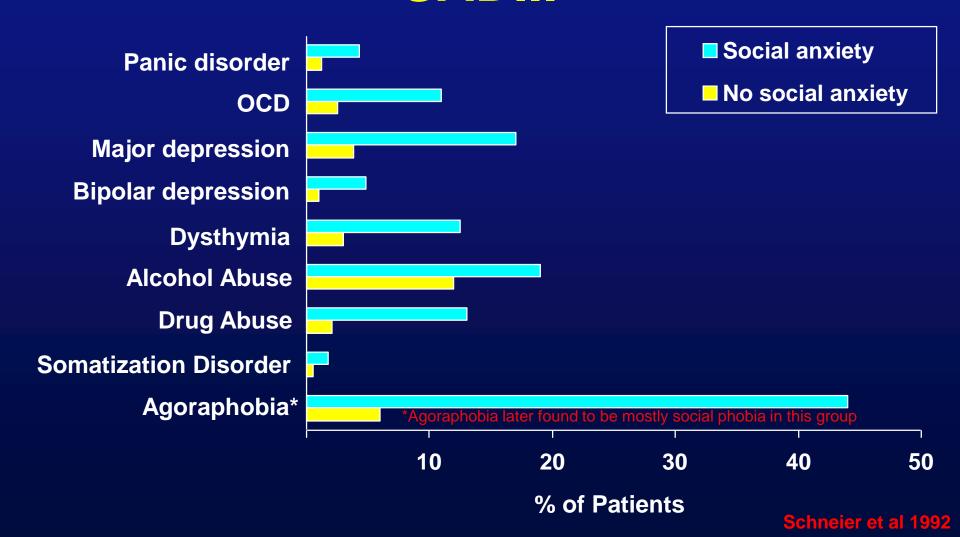


Age in Years of Subjects with SAD

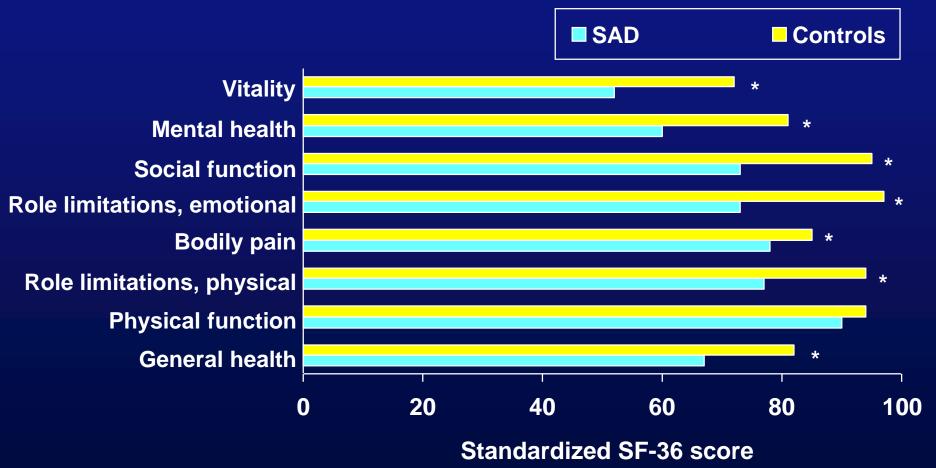
Social Anxiety Disorder and Comorbid Illnesses



Other Psychiatric Illnesses and SAD...



Quality of Life in Patients with SAD Assessed with the SF-36 Scale



Suicidality In SAD



Social Anxiety Disorder Part Three

Treatment

SAD Treatment Goals

- Determine Subtype
- Reduce Anxiety and Phobic Avoidance
 - Reduce Disability and Impairment
- Identify and Treat Comorbid Disorders

SAD Assessment of Treatment

Rating Scales

- SPIN
 - Social Phobia Inventory
- BSPS
 - Brief Social Phobia Scale
- LSAS*
 - Liebowitz Social AnxietyScale

Liebowitz Social Anxiety Scale

	Fear or Anxiety	Avoidance
1. Telephoning in public. (P)	ranxioty	
Participating in small groups. (P)		
3. Eating in public places. (P)		
4. Drinking with others in public places. (P)		
5. Talking to people in authority. (S)		
6. Acting, performing or giving a talk in front of an audience. (P)		
7. Going to a party. (S)		
8. Working while being observed. (P)		
Writing while being observed. (P)		
10. Calling someone you don't know very well. (S)		
11. Talking with people you don't know very well. (S)		
12. Meeting strangers. (S)		
13. Urinating in a public bathroom. (P)		
14. Entering a room when others are already seated. (P)		
15. Being the center of attention. (S)		
16. Speaking up at a meeting. (P)		
17. Taking a test. (P)		
Expressing a disagreement or disapproval to people you don't		
know very well. (S)		
19. Looking at people you don't know very well in the eyes. (S)		
20. Giving a report to a group. (P)		
21. Trying to pick up someone. (P)		
22. Returning goods to a store. (S)		
23. Giving a party. (S)		
24. Resisting a high pressure salesperson. (S)		

Scoring the LSAS

≥80: Severe

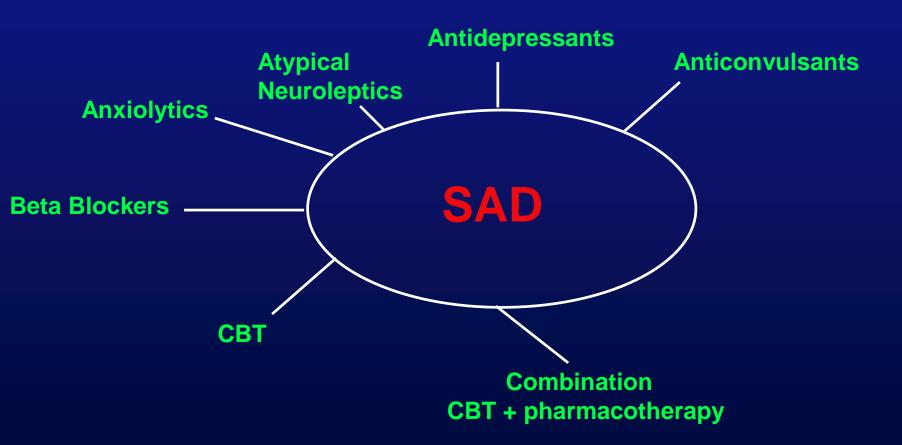
60-80: Moderate

≤30: Normal

SAD Treatment Options Vary Greatly in Efficacy

Three D's of Treatment

- Adequate Dose
- Adequate Duration
- Appropriate Documentation



SAD Subtypes and Treatment Considerations

Non-Generalized

- Limited Social Fears
- Often Predictable
- PRN Medication can be Effective
 - Beta-Blockers
 - Atenolol
 - Propranolol
 - Benzodiazepines
 - Lorazepam
 - Alprazolam

Generalized

- Social Skills Deficit
- Pervasive Social Fears
- Disabling and Severe
- Daily MedicationNeeded
 - SSRI
 - SNRI

Psychosocial Treatment may be Helpful for Both Subtypes

Psychosocial Treatments for SAD

- Psycho-Education
- Social Skills Training
- Cognitive Behavioral Therapy (CBT)
 - Individual or Group Therapy

CBT Pros and Cons

- Advantages
- It Works
- It Keeps Working
- Most People LikeIt
- Time-Limited
- Few Side-Effects

- Disadvantages
- More Work
- Limited Supply
- May Not be Covered by Insurance
- Not for Everyone

Psychosocial Treatment vs. Pharmacotherapy

Phenelzine vs. CBGT (Group CBT):

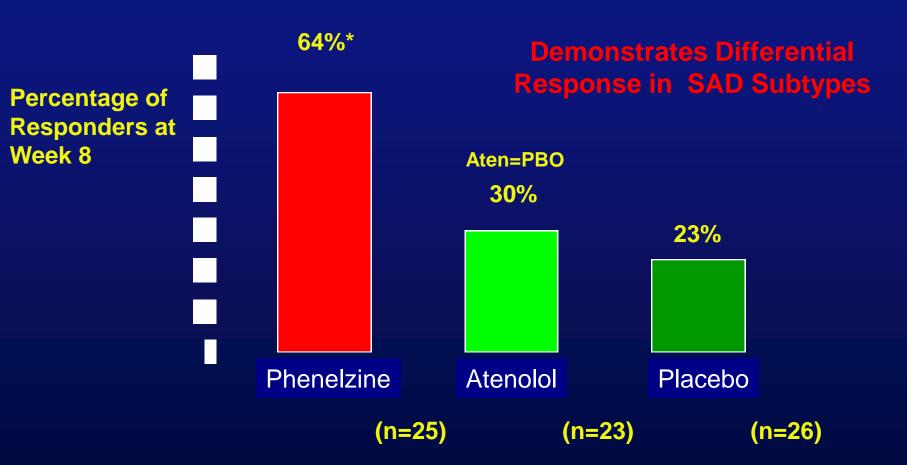
- Phenelzine Results in Greater Improvement Short-Term
 - CBGT Shows More Durable Improvement at Follow-Up

Pharmacotherapy

SAD Subtypes are Important When Considering Pharmacotherapy

First Pharmacotherapy for Social Anxiety Disorder

2/3 Generalized, 1/3 Non-Generalized *p<0.05



Non-Generalized Subtype Pharmacotherapy...

Beta Blockers

Beta Blockers (cont'd)

- Effective for Discrete "Performance Anxiety"
 - Not effective for Generalized SAD
 - Not Effective for Depression or Other Comorbidities
 - Decreases Symptoms of Physiologic Arousal, Not Emotional Experience of Anxiety
- Given 1-2 hours before event

Beta Blocker Dosing

Examples:

Propranolol: 10-40 mg PO

– Atenolol: 50-150 mg PO

Beta Blockers and Stage Fright in Musicians

In 24 String Players, Oxprenolol (40 mg):

- Decreased Heart Rate, Tremor, Nervousness
- Improved Performance Subjectively and Objectively

Beta Blockers: Scholastic Aptitude Test (SAT) and Performance Anxiety On Retest...

Expected Improvement was:14 points

(N=32)

With Propranolol (40 mg),
 Improvement was: 130 points

Generalized Subtype and Pharmacotherapy

Principles

Generalized Subtype Pharmacotherapy: Pros and Cons

- Advantages
 - Works Quickly
 - Less InitialTime/Effort
 - More RobustInitial Response inSome Patients

- Disadvantages
 - Patient ConcernsAbout PsychologicalDependence
 - Cost
 - Adverse Effects
 - Relapse Rate after D/C

Classes with Proven Efficacy in Generalized Subtype*

Selective Serotonin Reuptake Inhibitors (SSRIs)
Serotonin Norepinephrine Reuptake Inhibitors (SNRIs)
Benzodiazepines*
Monoamine Oxidase Inhibitors (MAOi)
Clomipramine
Gabapentin*

Not Reliably an Antidepressant or Insufficient Information

*Consideration includes comorbid disorders

Not all agents in all classes approved by FDA but all empirically supported in RCTs; Duloxetine insufficiently studied but likely resembles venlafaxine

Classes with Limited or No Proven Efficacy in Generalized Subtype

Anti-Epileptic Drugs¹ (AEDs)
Bupropion
CMIBut not other TCAs

¹AEDs-Gabapentin, Topiramate, Levetiracetam

Generalized Subtype Pharmacotherapy

 Recommended First-Line = SSRI or SNRI

 Initial dose for 2-4 weeks, then increase if necessary

Should see some benefit in 2-4 weeks

If No Response in 6-8 weeks...

Switch to Another Class

or

 Augment with a Benzodiazepine or a Beta Blocker

Generalized Subtype Pharmacotherapy (cont'd)

 Typical Pattern is Continued Improvement for Months

(may take ≥ 1 yr for optimal response)

 Continue Pharmacotherapy After Gains Maximized to Allow for Resumption of Psychosocial Development

Generalized Subtype: SSRIs and SNRIs

- Advantages
 - Broad Efficacy
 - Safe
 - Well Tolerated
 - Easy to Use

- Disadvantages
 - Initial side effects (jitteriness, insomnia, nausea)
 - Long-term side effects (weight gain, sexual dysfunction)
 - Expensive

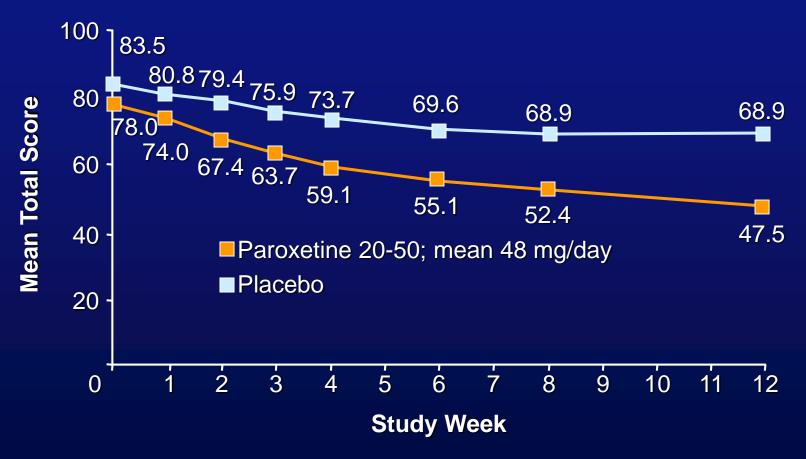
Clinical Wisdom: Drugs Within a Class are the the Same, but "Different".

(Example--with SSRIs, Consider Trying More than One Before Switching Classes)

Q: "Are all your sons like you?"
A: "Yeah, we're all alike, but our similarities are different."

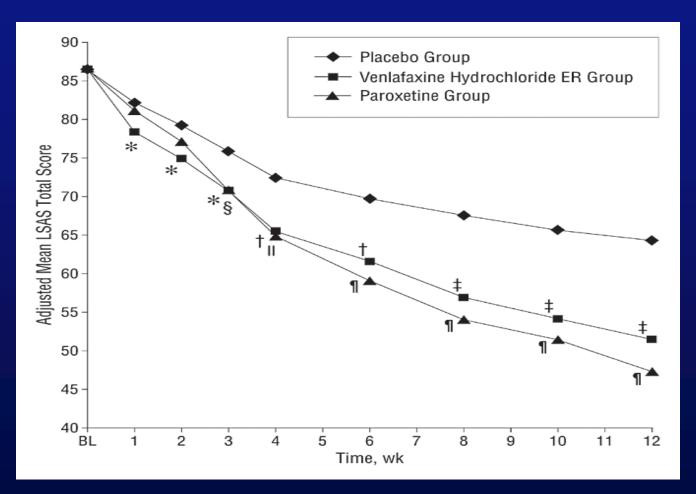
Yogi Berra

Typical SSRI vs Placebo in SAD Paroxetine -- Total Change in LSAS



^{*} P<.05 versus placebo Stein et al. JAMA. 1998;280:708

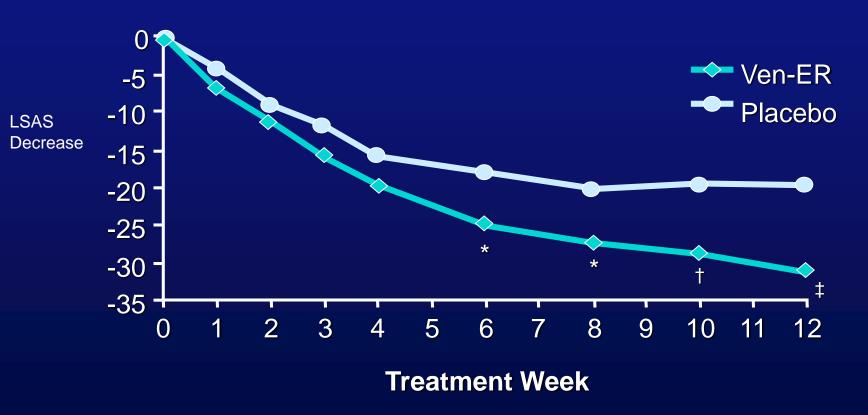
Generalized Subtype: SNRI vs. SSRI vs. Placebo



n= Ven-146; PAR n=147; PBO=147 Dose Ven 75-225 PAR 20-50

SNRI: Venlafaxine ER Flexible Dose 75-225 mg/day

271 randomized, 173 completed Response Ven XR 44%; PBO 30% // Remission Ven XR 20%; PBO 7 %

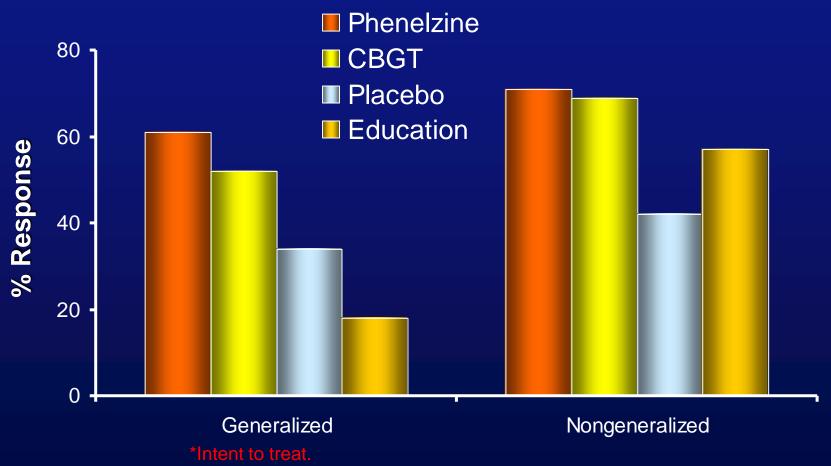


Monoamine Oxidase Inhibitor Treatment Of SAD

- Irreversible (nonselective)
 - Phenelzine,
 - TranylcypromineVery Effective

 - Poorly Tolerated
 - Hazardous Interaction with Tyramine
- Reversible Inhibitors of Monoamines (RIMAs)
 - Reversible, selective for MAO-A
 - Well tolerated
 - Not Available in US
 - » Moclobemide Weak Response in **Most Studies**
 - » Brofaromine-Very Effective

Response by Subtype of SAD CBT (Group) vs. MAOi



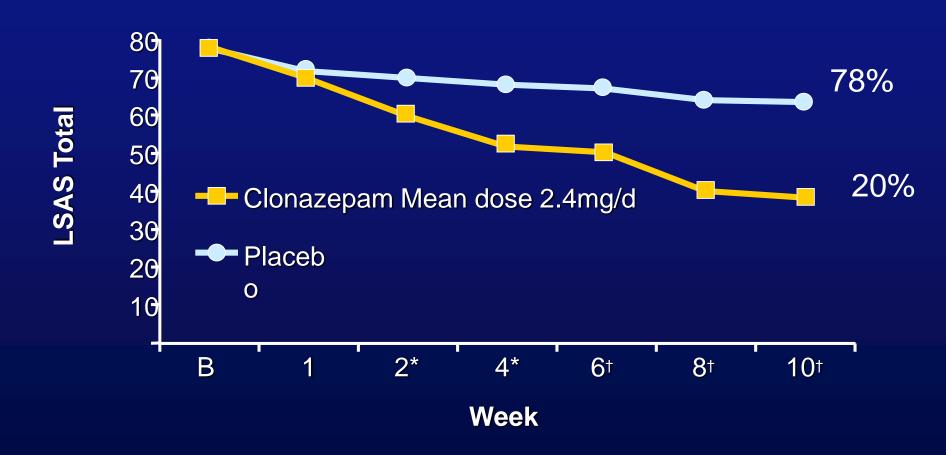
Two-site study; One Pharmacotherapy-Oriented, the Other CBT-oriented.

No outcome differences between sites.

Benzodiazepine Treatment for Social Anxiety Disorder

- Effective--Highest Response Rates
- Potential Problems in Patients with Substance abuse
 - Not an Antidepressant
 - Side Effects
 - Disruption of Cognition / Sedation
 - Tolerance / Dependence / Withdrawal

Benzodiazepines in SAD: Clonazepam vs. Placebo



Tricyclic Antidepressant Treatment Of SAD

- Doubtful Efficacy
 - Side Effects
- Sedation, Tremor, Dry mouth
- Decreased Cognition
 - Sexual Dysfunction
 - Weight Gain
 - Constipation

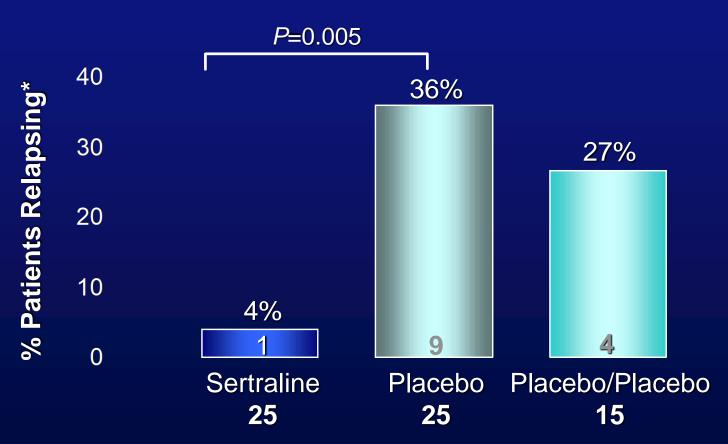
Tricyclic Antidepressants

- Clomipramine Appears Effective
- Imipramine Ineffective in only Controlled Study
 - N=41, 8-week trial; Mean dose: 149 mg/d
 - Intent-to-treat (ITT)
 - 20 dropped out (most-adverse effects)
 - Responders:
 - → Imipramine: 2/18
 - ♦ Placebo 1/23

Maintaining Gain in SAD

Relapse* Prevention in Social Anxiety Disorder: Sertraline

Proportion of Patients Relapsing During 24 Weeks of Double Blind Treatment

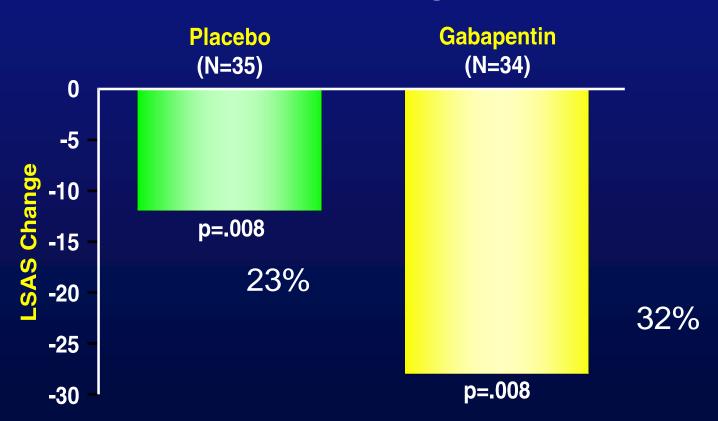


^{*}Relapse = Responders by CGI who Worsened from Double Blind Continuation Study Baseline or for Discontinuation Due to Lack of Efficacy. Placebo / Placebo is the Group Initially Receiving and Responding to Placebo.

Novel Treatments: Gabapentin in SAD

8-week study ITT Analysis--Marginal efficacy

300-1200 mg tid



Summary of Pharmacological Management of SAD

Generalized SAD

First Line: SSRI or SNRI

(Broad Spectrum Activity Against Comorbid Disorders)

Titrate over 2-4 weeks, then Increase if Necessary

Some Benefit often Evident by 2-4 weeks

Summary of Pharmacological Management of SAD (cont'd)

If No Response by 6-8 weeks,

Switch to Another Drug

or

Augment

Continue Pharmacotherapy for ≥ 1 year After Maximal Gain is Achieved

CBT is a Reasonable Therapy

Daily Dose Range for SAD and Most Comorbid Disorders*

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\sim		

Paroxetine

Sertraline

Escitalopram

Fluvoxamine

Citalopram

Clomipramine

Buspirone

Clonazepam

• Alprazolam

Diazepam

75-300 mg

20-80 mg

50-300 mg

10-40 mg

50-300

20-60 mg

25-300 mg

30-60 mg

0.5- 4 mg

1-8 mg

5-40 mg

Tips...

Start Low and Titrate
 Individually Based on Side
 Effects and Efficacy

The "Right" Dose is the One which Provides Efficacy and Tolerability

Tips (cont'd)...

 May Require Higher Doses for Anxiety or SAD and Comorbid Disorder(s)

 Document Your Rationale and Patient Assent if Using Outside Labeling Dosage

Long Term Treatment is Required by Many Patients to Maintain Gains

Long-Term Treatment Indications

- Persistent Social Anxiety Symptoms which Cause Impairment
- History of Relapse After Stopping Prior Treatment
- Comorbid Conditions which Require Prophylaxis

Selection Considerations

- Evidence for Efficacy
- Safety
- Tolerability
- Half-Life
- Drug-Drug Interactions
- Protein Binding

Conclusions

- SAD is Common and Disabling
- SAD Requires Prompt Diagnosis to Prevent Long-Term Disability
- SAD is
- Underdiagnosed
- Undertreated
- SAD Demands Increased Awareness from Health Professionals and the Public

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True or False

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What is First Line Treatment for SAD and... Does it vary between the 2 Subtypes?

Non-Generalized Subtype Generalized Subtype

Generalized Subtype

TRUE!

- Agoraphobia... in almost 1/2 of patients with SAD
- Alcohol Abuse... in almost 1/5 of patients with SAD
- Major Depressive Disorder...
 in almost 1/5 of patients with SAD

Yes.

Pharmacotherapy can vary between the 2 Subtypes.

Generalized... First Line: SSRI or SNRI

Non-Generalized... PRN
Pharmacotherapy Targeting
Symptoms

Acknowledgements

James Jefferson, MD*

University of Wisconson &

Health Technology Systems. Madison WI

J.R.T. Davidson, MD

Duke University

Murray B. Stein, MD, MPH

UC San Diego

Emily Goddard, MD

Medical University of South Carolina

John Greist, MD*

David Katzelnick, MD*