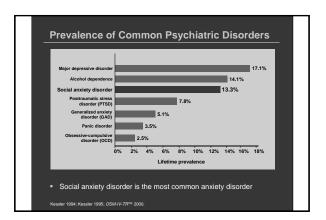
Social Anxiety Disorder

Franklin Schneier, MD



Overview

- Diagnostic Criteria
- Clinical Phenomenology
- Etiologic Factors
- Treatments

Social Anxiety Disorder: Prevalence in Community

- Lifetime prevalence up to 15%
- Point prevalence about 7-8%
- About half of this represents generalized subtype

Clinical Importance Of Social Anxiety Disorder (Social Phobia)

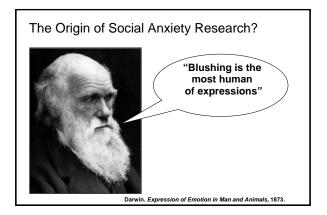
- Highly prevalent, chronic
- Significant social and occupational disability
- Risk factor for depression, alcohol abuse, suicide
- Treatments available but underutilized

Features of DSM-IV Social Anxiety Disorder

- Marked & persistent <u>fear of embarrassment or</u> humiliation in social or performance situations
- · Exposure usually provokes anxiety
- Recognition that fear is excessive/unreasonable
- · Avoids feared situations or endures with distress
- Interferes with function or causes marked distress

Social Anxiety Disorder Subtypes

- Generalized: Anxiety in most social situations
 - Most impairment
 - Most studied
- Nongeneralized (a.k.a. Discrete, Performance)
 - Predominantly performance anxiety
 - Most commonly related to public speaking
 - Social interactions relatively spared



Feared social situations in community

- Performing on stage (18%)
- Public speaking (13%)
- Talking with others (6%)
- Social gatherings (5%)
- Eating/drinking in public (4%)
- Also: dating, assertiveness/conflict, school

Wittchen, 1999

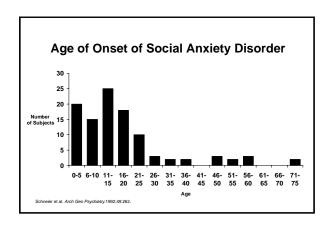
Charles Darwin: on Blushing

- Universal, heritable
- · Involuntary vasomotor response to scrutiny
- Not a sign from God that one had sinned

Darwin. Expression of Emotion in Man and Animals, 1873

Social Anxiety Disorder: Common Symptoms

- Cognitive
 - Self consciousness (appear foolish, awkward)
 - Social Inferiority ("I won't measure up to...")
 - Fear of negative evaluation ("She won't like me")
- Physiological
 - Blushing, Sweating, Tremor
 - Panic attacks may occur only social situations
- Behavioral: Avoidance, Poor Eye Contact, Passive



Social Anxiety Disorder: Educational And Occupational Impairment O.0 -5.0 -5.0 -15

Screening for Social Anxiety Disorder

 Do you worry about embarrassment or feeling selfconscious around others?

Due to early onset and chronicity, patients may not self-recognize social anxiety disorder as a treatable condition.

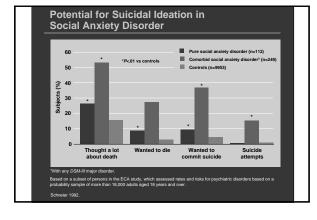
Complications of Social Anxiety Disorder

- Elevated rates of secondary major depression
- Elevated rates of secondary alcohol abuse

Many patients only seek treatment after developing a complication.

Assessing Social Anxiety Disorder

- If yes to screen question:
 - What situations are uncomfortable? Offer list...
 - What do you fear in those situations?
 - Do you experience physical symptoms?
 - Do you avoid situations?
 - What situations are comfortable for you?
 - What would you be doing if you didn't have this?

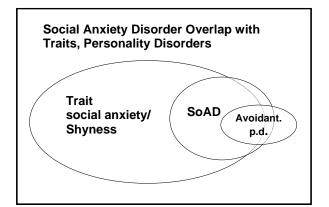


Social Anxiety Disorder Patients in the Doctor's Office

- May avoid doctors due to anxiety
- May appear anxious (fearful of authority figure)
- May be self conscious of body, physical contact of examination, revealing anxiety
- "White coat hypertension" may be more prevalent
- May appear agreeable, eager to please (but may avoid suggestions rather than voice disagreement)

Relationship to Shyness

- 90% of population reports some "shyness"
- · Normal social anxiety:
 - Increases arousal & attention to social interactions
 - Inhibits aggressive/inappropriate social behavior
 - Helps motivate preparation for social performance
- Social Anxiety Disorder is more severe, persistent, pervasive, impairing



Relationship with Avoidant Personality Disorder

- High rates of overlap between generalized Social Anxiety Disorder and Avoidant Personality Disorder
- Little evidence for qualitative differences

Social Anxiety Disorder: Comorbidity and Differential Diagnosis

- Panic Disorder <u>unexpected</u> panic attacks
- Agoraphobia fear crowds due to fear of panic
- GAD social fears are only part of broader worries
- Depression loss of interest in social activities
- Psychosis social avoidance due to fear of harm

Trait Qualities of Social Anxiety Disorder

- On continuum with normal shyness, avoidant p.d.
- Often ego-syntonic to some extent
- · Early onset
- · Highly chronic

Embarrassing Medical Conditions & Social Anxiety Disorder

- Social anxiety common in essential tremor, stuttering, parkinson's, disfigurement, obesity, etc.
- Technically not diagnosed as social anxiety disorder if due to primary medical condition
- Stress-Diathesis Model relevant
- Social anxiety disorder treatments may be useful

Social Anxiety Disorder: Possible Underlying Features

- Submissive Behavior
- · Behavioral Inhibition
- Cognitive Traits (e.g. distorted assessment of social threat & consequences of negative evaluation)

Behaviorally Inhibited Temperament is specifically associated with Social Anxiety Disorder

- 15% of young children respond to unfamiliar lab situation with extreme physiologic reactivity and behavioral inhibition
- Increased Social Anxiety Disorder in families (17.5% vs. 0%)
- Increased generalized social anxiety at age 13 (61% vs. 27%)
- Significant heritability



Family and Twin Studies of Soc Anxiety

 Increased risk of SoAD in 1st degree relatives, 10fold increased risk within generalized subtype

Mannuzza et al, 1995, Stein et al, 1998

• 30-40% genetic influence in twin studies

Kendler et al, 1992, Nelson et al, 2000

Evolved Submissive Behaviors may share diathesis with Social Anxiety Dz

- Group-living species: social anxiety has survival value
 - Subordinates must recognize dominants and show submissive behavior
- Subordinates & persons w/ Social Anxiety Dz show:
 - Anxious Arousal
 - Vigilance re. Social Comparison
 - Submissive and Inhibited Behavior

Ohman 1985, Gilbert 2001

Biological Findings in Social Anxiety Disorder and Related Traits

- Increased sympathetic NS activity in nongeneralized Social Anxiety Disorder
- Some evidence for low CNS Dopamine, Serotonin
- · Increased amygdala activation to social stimuli
- Subcortical activation and cortical deactivation during social anxiety state

fMRI Study of Direct Gaze and Submissive Behavior

- Direct gaze is salient and potent stimulus
- Response is automatic, nonverbal
- We assess differences in response to direct vs. indirect gaze
 - Regional brain activation with fMRI
 - Gaze aversion with eye tracking device

Compared to...

Eyes Neutral



Eyes Neutral



Eyes Up



Eyes Direct



Psychosocial Risk Factors in the Development of Social Anxiety Disorder

- · Parental modeling of socially avoidant behavior
- · Hypercritical parenting
- · Overprotective parenting

Socially anxious children may benefit from expectations that they participate in social activities and praise for their attempts.

From automatic negative thoughts → useful rational responses

- Everyone will notice I'm sweating→→→
 Even if I'm sweating I can still... (e.g. give the talk)
- I'll probably be rejected → → →
 I'll feel good I had the guts to... (e.g. ask her out)

Treatments for Social Anxiety Disorder

- Cognitive-Behavioral Therapy (Typically 12-16 weekly sessions, collaborative approach)
 - Characterize problem situations and cognitions in detail
 - Learn and practice techniques to develop adaptive cognitions and goals
 - Practice exposure through roleplaying and homework

Exposure to Feared Situations

- Begin with easiest situations (e.g. conversation with an acquaintance)
- Set modest initial behavioral goal (e.g. ask three questions in conversation)
- Use a rational response (e.g. I'd like to get to know him better.)

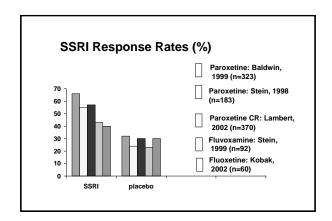
Rationale for CBT in Social Anxiety Disorder

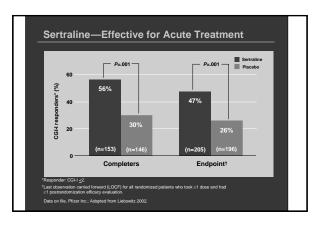
Disorder is maintained by:

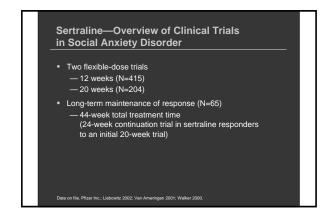
- Phobic Avoidance
 - Limits chance to disprove fears, gain skills
 - Reinforces fears, increases symptoms
- Negative Cognitions
 - & Biased, unhelpful, "automatic"
 - A Increase symptoms, avoidance
 - & Block extinction, even if exposure occurs

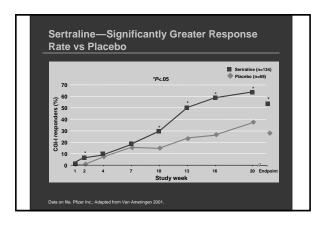
Psychopharmacology of Social Anxiety Disorder: Efficacy in Rz'd Clinical Trials

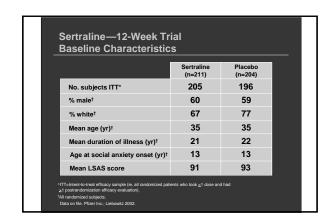
- SSRIs/SNRI
 - paroxetine, sertraline, venlafaxine, fluvoxamine, escitalopram
- Benzodiazepines
- clonazepam
- MAOIs
- Phenelzine
- Gabapentin
- Beta-blockers
 - Propranolol (for performance anxiety only)

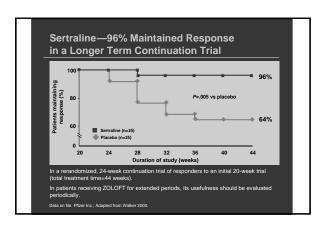


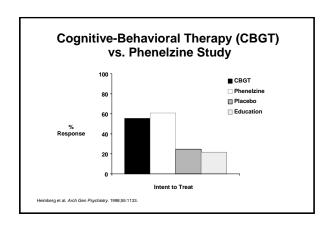












Social Anxiety Disorder Research at P.I.

- Clinical trials of medication and CBT
- PET studies (e.g dopamine function)
- fMRI studies (response to direct gaze)
- Studies of submissive behavior, ethological models
- Decision making
- Cross-cultural studies