

# Treatment Resistant OCD in Youth

(Reinblatt and Walkup 2005)

- If partial response, add CBT
- Switch SSRIs
- Augmentation with atypical antipsychotics, esp risperidone with schizotypy and tics
- Augmentation with Clomipramine, Buspirone, Li, Pindolol, another SSRI or SNRI, clonazepam
- SSRI and Clomipramine
- Psychosurgery

# Cognitive Behavioral Therapy

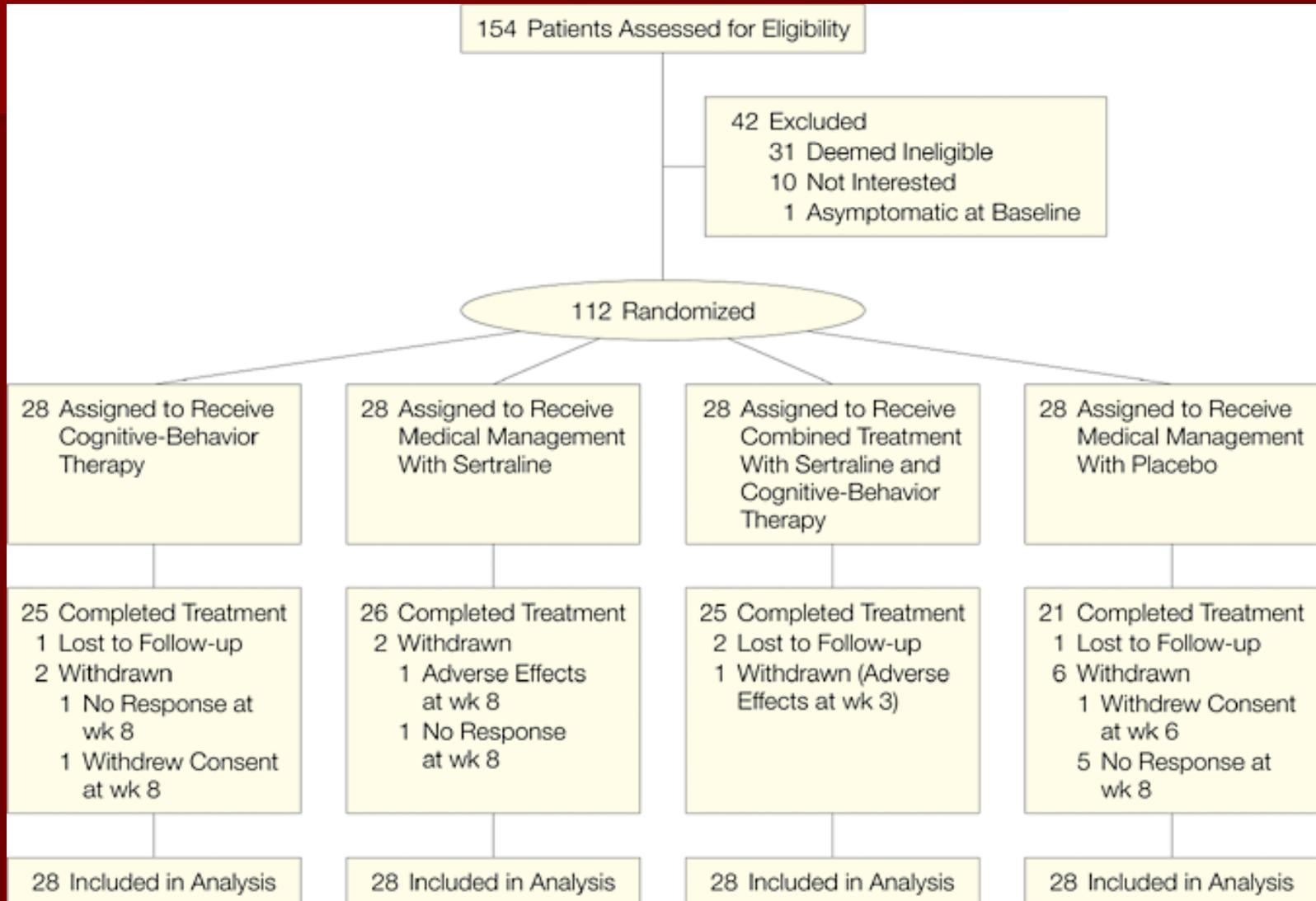
- Hierarchy-based Exposure and Response Prevention (March 1994, Scahill 1996, Franklin 1998): 14 sessions over 12 wks with toolkit approach, self-monitoring, mindfulness ('watch the Obsessions or Compulsions doing their own thing, not belonging to me')- use of "fear" thermometer
- Imaginal exposure for obsessions: in vivo
- Habit reversal for "just-so" phenomena
- Cognitive restructuring for negative thoughts
- Self observation, extinction, operant conditioning, and modeling used in adolescence: Behavioral rewards
- Flooding, graded exposure, and response prevention (March et al 1994)
- Family and group forms of treatment are effective as well (Barrett et al 2004)

# Pediatric OCD Treatment Study (POTS)

- Compared efficacy of 4 different treatment options: Sertraline alone, sertraline +CBT, CBT alone & placebo alone; n=112; 12 weeks
- Randomized parallel groups
- Entry criteria CYBOCS=16; Mean of 24.6 with only ADHD meds allowed
- Sertraline- Upward titration from 25→200 mg/d over 6 weeks
- Outcome measure of remission: CYBOCS <10

# POTS

(Team POTS, JAMA 2004)



# POTS

(Team POTS, JAMA 2004)

**Table 2.** Mean CYBOCS Score, by Treatment Group and Week (n = 28)

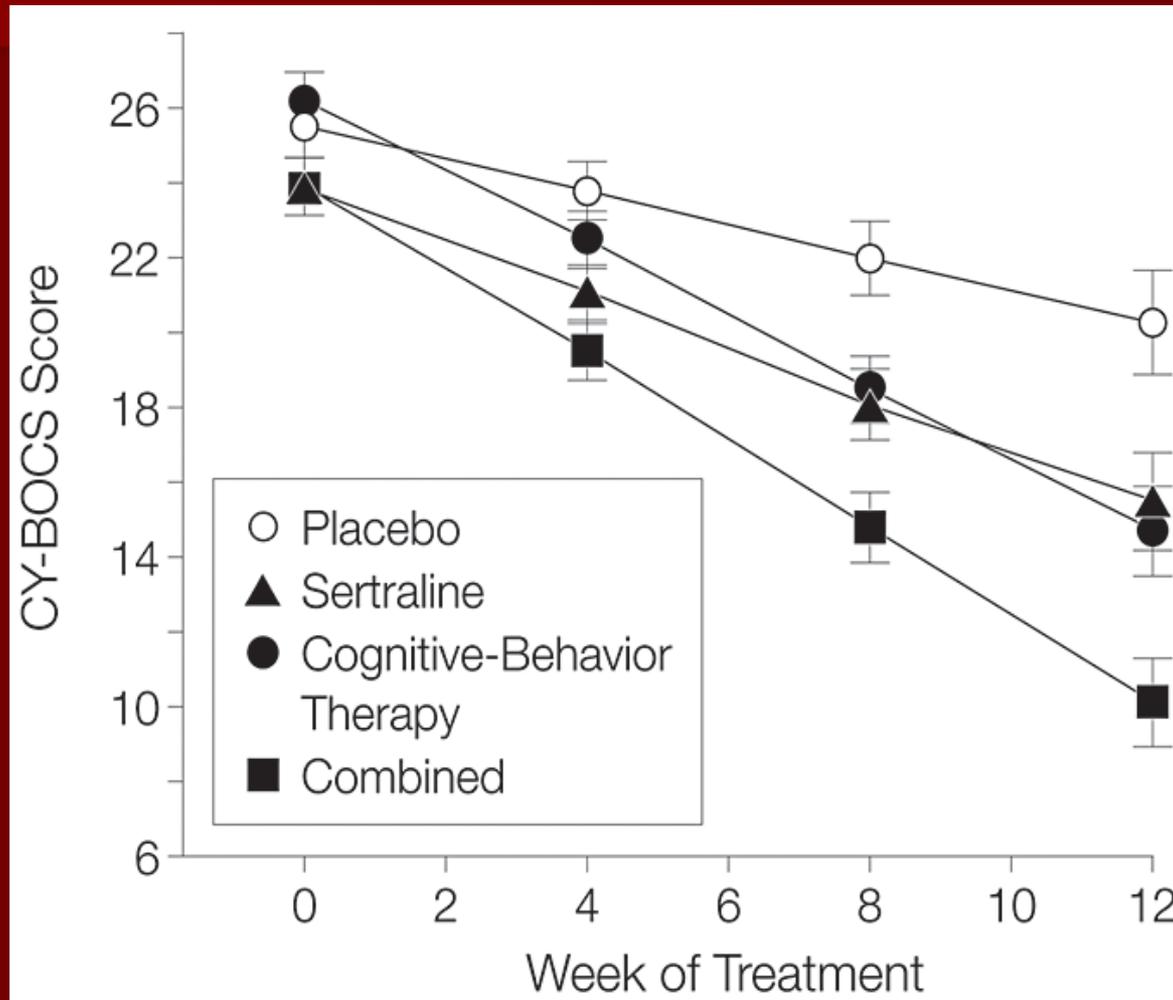
Week	CY-BOCS Score, Unadjusted Mean (SD)*			
	Cognitive-Behavior Therapy	Sertraline	Combined Treatment	Placebo
Baseline	26 (4.6)	23.5 (4.7)	23.8 (3.0)	25.2 (3.3)
4	20.6 (6.5)	18.5 (7.5)	18.1 (6.8)	22.4 (5.4)
8	18.1 (7.9)	16.9 (8.2)	14.4 (8.1)	22.5 (4.4)
12	14.0 (9.5)	16.5 (9.1)	11.2 (8.6)	21.5 (5.4)

Abbreviation: CY-BOCS, Children's Yale-Brown Obsessive-Compulsive Scale.

\*Last observation carried forward used to impute missing values.

# POTS

(Team POTS, JAMA 2004)



# POTS

(Team POTS, JAMA 2004)

**Table 3.** Treatment-Emergent Adverse Events in Medication-Treated Patients\*

Adverse Event	No. (%)		
	Sertraline (n = 28)	Combined Treatment (n = 28)	Placebo (n = 28)
Decreased appetite	5 (18)	4 (14)	0
Diarrhea	6 (21)	0	1 (4)
Enuresis	2 (7)	2 (7)	0
Motor overactivity	1 (4)	6 (21)	1 (4)
Nausea	7 (25)	5 (18)	1 (4)
Stomachache	8 (29)	4 (14)	2 (7)

\*Data are for events occurring in at least 5% of sertraline-treated patients and with an incidence of at least 2 times that seen in placebo-treated patients in either the sertraline-alone or the combined-treatment group. Medication-related adverse events were not recorded for patients treated with cognitive-behavior therapy alone.

# POTS: Outcome

- Mean daily dose of sertraline
  - ✓ With combined treatment: 133 mg/day
  - ✓ Sertraline alone: 176 mg/day
- Effect sizes:
  - ✓ CBT: 0.97
  - ✓ Sertraline alone: 0.67
  - ✓ Combined treatment: 1.4
- Remission rates (CYBOCS=10) for combined 53.6%; CBT alone 39.3%; sertraline 21.4% and placebo 3.6%

## Pediatric Autoimmune Neuropsychiatric Disorders associated with Streptococcal infections (PANDAS)

- Five clinical criteria of the PANDAS subgroup:
  - Presence of OCD and/or tic disorder (using DSM-IV criteria)
  - Prepubertal symptom onset
  - Episodic course characterized by acute, severe onset and dramatic symptom exacerbations
  - Neurological abnormalities present during symptom exacerbations
  - Temporal relationship between GABHS infections & symptom exacerbations

# Treatment Guidelines for PANDAS

(Swedo et al, 1998)

- Assess for GABHS infection by 48 hour culture in child with abrupt onset OCD/Tic D/O. Treat positive culture with 10-day course of antibiotics
- If abrupt onset of OCD/tics occurred 4-6 weeks before visit → Check ASO & Anti-Dnase-B + 48 hr GABHS throat culture → Do not treat with antibiotics if culture is negative (despite ↑ titers)
- Obtain throat cultures at the time of relapse of OCD symptoms
- Immunomodulatory treatment (Plasma exchange or IVIG) only used for most severely affected patients

# Refutation of PANDAS hypothesis (Kurlan and Kaplan 2004)

- (1) Level of severity of tics and OCD symptoms not defined
- (2) Age of onset the same as 'regular' TS and OCD.  
Further, there has been a post pubertal case reported
- (3) Abrupt onset not clinically specific since tics may not be identified gradually e.g. at least 2 studies show 38-50% of children with TS described as acute onset with no diagnosis of PANDAS
- (4) Does presence of choreiform movement suggest that diagnosis is Sydenham's?
- (5) GABHS as causative agent hard to show since a) carrier states b) infection worsens any tics. There is imprecision in the temporal course of PANDAS

# Clinical implications: PANDAS (Kurlan and Kaplan 2004)

- Only get Streptococcal culture when there are clinical signs and symptoms (otherwise carrier state can be confusing)
- Antineuronal antibodies and D8/17 are NOT reliable indicators (even though elevated D8/17 on B lymphocytes is a susceptibility marker for Rh-F)
- Do not use prophylactic antibiotics and do not use plasma exchange and IV immunoglobulin

# Recent research in Pediatric OCD

# SSRI meta-analysis in OCD

(Bloch et al, 2009)

- Meta-analysis to determine differences in efficacy and tolerability between different doses of SSRIs in OCD.
- 9 randomized DBPC studies with 2268 subjects reviewed: Higher doses of SSRIs had improved treatment efficacy, using either Y-BOCS score or proportion of treatment responders as an outcome.
- SSRIs' dose not associated with the number of all-cause dropouts.
- Higher doses of SSRIs associated with significantly higher proportion of dropouts due to side-effects.

# Cognitive-behavioral family treatment (O'Leary, 2009)

- Cognitive-behavioral family treatment (CBFT) for childhood obsessive-compulsive disorder: 38 participants (age 13-24 years) from a randomized controlled trial of individual or group CBFT for childhood OCD assessed 7 years post-treatment.
- 7 years after treatment: 79% participants from individual therapy & 95% from group therapy did not have a diagnosis of OCD.
- No significant differences found between treatment conditions except that depressive symptoms were more for individual treatment.
- CBFT for obsessive-compulsive disorder is effective 7 years post-treatment.

# Question 1

Early onset OCD is characterized by:

- A) Increased comorbid tic disorders
- B) Decreased comorbid ADHD
- C) Onset of OCD precedes tics by many years
- D) Minimal genetic loading

# Question 2

Common comorbid diagnoses with OCD include all of the following except:

- A) ADHD and ODD
- B) Major depression and anxiety
- C) Somatoform disorders
- D) Motor tics

# Question 3

The following medications are effective in the treatment of OCD, except:

- A) Clomipramine
- B) Fluoxetine
- C) Desipramine
- D) Fluvoxamine

# Question 4

The POTS trial in OCD found that the greatest reduction in CYBOCS scores results from:

- A) Sertraline alone
- B) CBT alone
- C) Combined CBT+Sertraline
- D) Family Therapy

# Question 5

Criteria for diagnosing PANDAS include:

- A) Motor and vocal tics
- B) Obsessive and compulsive disorder of childhood onset
- C) Tourette Disorder
- D) Sudden onset of OCD after a streptococcal infection

# Answers

1) A

2) C

3) C

4) C

5) D