Best Practices for Outpatient Program in Bipolar Disorder: Pediatric Mood Disorders Program at the University of Illinois at Chicago Julie A. Carbray PhD, PMHN-CNS



Introduction

- five fold increase in diagnosis of PBD in last 5 years
- c complex presentation
- limited research, treatment efficacy research
- vast skill set needed

Core Team

• limited empirical base to guide mental health nursing practice

PMDC Team

- e Mani Pavuluri MD, PhD
- Tahseen Mohammed MD
- Julie Carbray PhD, APN, PMHN-CNS
- e Amy West PhD
- Godi Heidenreich LCSWClinical Coordinator
- Research Coordinator
- Fellows, Interns, Nursing students, Volunteers
- RAs

What is Integrated Treatment?

Multimodal Treatment of Youth with Bipolar disorder (MITY-BD)

- e Clinical Assessment
- Pharmacotherapy
- e Psychosocial treatment
- Maintenance treatment



A Pharmacotherapy Algorithm for Stabilization and Maintenance of Pediatric Bipolar Disorder Pavuluri et al 2004 Combination Trial: Risperidone with Lithium or DVPX in Pediatric Mania Pavuluri et al 2005

Role and Function of Psychiatric Nurse

- Administrative Director of Program
- e Clinic Administrator
- e Development of trials, CMRS, RAINBOW
- Leader of parent group
- Teaching of others in RAINBOW
- Consultant to others on establishing clinics
- Leadership in field

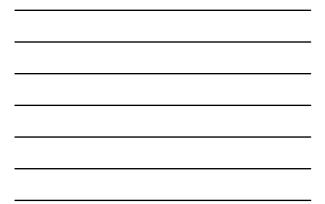
Child Mania Rating Scale (CMRS)

c 21 Items

- c Rated on 4-point Likert-type Scale
 - 0 = Never
 - 1 = Sometimes
 - 2 = Often
 - 3 = Very Often
- Range: 0 to 63
- Internal consistency: .91 by Cronbach's *alpha*.

Child Mania Rating Scale, Parent Version

0 1 2 3 0 3 1 2 0 2 3 1 0 1 2 3



Unique Characteristics of Pediatric Bipolar Disorder (PBD)

- Extreme Mood lability from irritable, excitable, impulsive, intrusive and loud to sullen, withdrawn, and weepy leads to significant interpersonal problems
 Ultradian cycling
- Significant irritability
- Mixed depression and mania
- c Comorbid disorders
 - ADHD ODD

 - Anxiety

Affective Circuitry Dysfunction Dorsolateral prefrontal cortex related to problem-solving

- Onderactivated in PBD
 Amygdala and orbitofrontal cortex related to affect regulation
 Overactivated in PBD
- Overall effect: decreased problem-solving during excessive emotional states

Interpersonal/Environmental Stressors

- Peer rejection
- e Family conflict
- Low self-esteem and feelings of worthlessness
- c Exhaustion and strain in parents
- Confusion at school





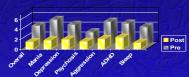


Study #1: Preliminary Pilot of Individual Treatment

Pavuluri, M.N., Graczyk, P., Henry, D., Carbray, J., Heidenreich, J., Miklowitz, D. (2004) *Child- and Family-focused Cognitive-Behavioral Therapy for Pediatric Bipolar disorder: Development and Preliminary Results*. Journal of the American Academy of Child and Adolescent Psychiatry, 43(5), 528-537.

• <u>Objective</u>: To describe and test feasibility of CFF-CBT delivered in its individual psychotherapy format to children with PBD

Pre-Post CGI-BP Severity Scale



p values<0.0001 except psychosis p <0.0

Translation to Practice...Psychosocial treatment may help to alleviate symptoms and improve functioning. It is likely an imperative ingredient of treatment model.

Study #2: Preliminary Pilot of Group Treatment

- c <u>Objective</u>: To develop and test a group adaptation of the child- and family-focused cognitive-behavioral program for pediatric bipolar disorder (PBD).
- c CFF-CBT group treatment is comprised of 12 weeks of parallel child and parent group therapy sessions.



YMRS = Young Mania Rating Scale: CDI = Children's Depression Inventory: CGAS = Children's Global Assessment Inventory: PSS = Parenting Stress Scale: TOPS = Therapy Outcomes Parent Scale

Translation to Clinical Practice....Group psychotherapy may help alleviate symptoms, improve social and academic functioning, decrease parenting stress, increase knowledge and efficacy around disorder. Parents feel empowered and use each other as supports; children have opportunity for positive social interaction.

Study #3: Maintenance Model of RAINBOW Treatment

West, A., Henry, D., &Pavuluri, M. (2007). Maintenance Model of Integrated Psychosocial Treatment: A Pilot Feasibility Study. Journal of the American Academy of Child and Adolescent Psychiatry.

 <u>Objective</u>: To develop and test the feasibility of a maintenance model of CFF-CBT, comprised of psychosocial booster sessions integrated with medication.

Design

♦ Measures:

-WASH-U-KSADS

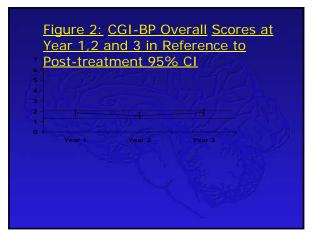
- -Clinical Global Impressions Scale for BP (CGI-BP)
- -Children's Global Assessment Scale (CGAS)
- ◆ Sample:
 - -24 boys and 10 girls with PBD (I, II, NOS); ages 5-17 (M = 11.33, SD 3.0)
 - Predominantly middle-class; 68%
 Caucasian, 23% African American, 6% Latino, and 3% Asian.

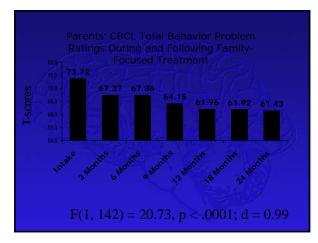
Procedure

- During first six months, study clinicians met to discuss recurring themes and design specific interventions within the RAINBOW framework to address these barriers to continued progress
- After acute phase treatment, study participants transitioned into maintenance phase, comprised of medication management and psychosocial booster sessions
- Data on symptom experience and functioning was recorded at year 1,2, and 3 during the maintenance phase of treatment

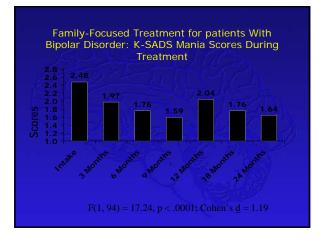
Results

- Three years after initial acute phase of treatment, those patients who received CFF-CBT maintenance therapy had sustained symptom improvement and functioning seen after acute phase
 - When compared to pre-treatment scores, follow-up scores on each CGI-BP scale and the CGAS maintained significance at the p<.0001 level
 - No significant difference between post-treatment scores and follow-up scores on any subscale. All three follow-up scores on both measures were within the 95% CI for post-treatment scores
- Maintenance treatment was feasible to deliver; very few drop-outs (3/34) indicate that it keeps families engaged

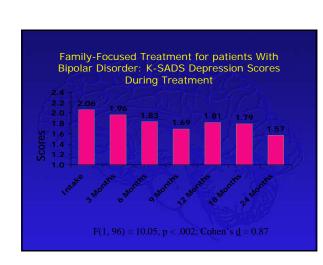














Preliminary Conclusions:

- There may be key ingredients (e.g. psychoeducation or communication skills)
- Psychosocial treatments appear to provide added benefit ir addition to medication in symptom improvement, functioning, and other psychosocial variables.
- c Need for maintenance phase of treatment
- Important to integrate psychosocial and psychopharmalogical treatment

Strengths • Innovative service • Service plus science • Strengths based, family focus • Psychiatric Nursing Leadership and training • transportability

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What you see is what you get

