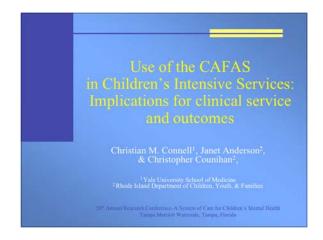


### The Presenters Christian M. Connell & Christopher Counihan: Utilizing CAFAS Data to Understand Service Delivery within an Intensive Home-based Program for Children and Adolescents with SED Melanie Barwick: Using encounter and outcome data to guide management of behavioral health services in Ontario Kay Hodges: Outcome Indicator "Dashboard" Helps Sustain Continuous Quality Improvement Efforts at the Provider Level



Overview of Presentation

Describe CIS evaluation methods and CAFAS sample selection

Demographic and Clinical Characteristics of CIS clients in CAFAS sample

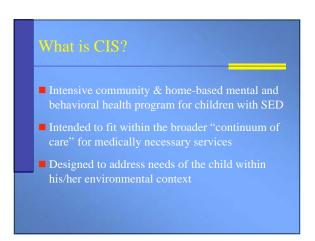
Results of CAFAS Analyses

CAFAS Scores

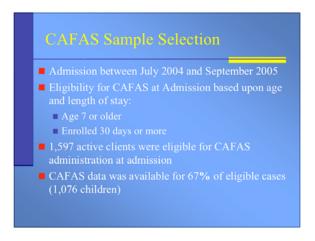
Using the CAFAS to identify clinical groups

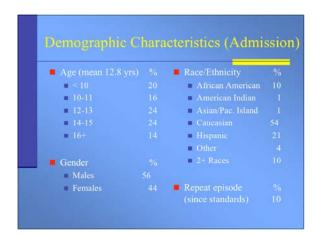
Changes in functioning at discharge

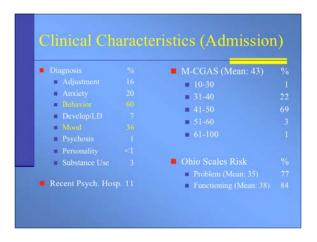
Implications and use of CAFAS and evaluation results to inform service delivery



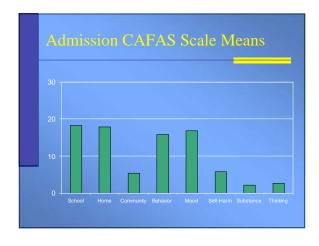
# Evaluation Methodology Monthly MIS Data Extraction covering all children active in CIS during previous month New Admissions Total Population Updates CIS Level Changes Service Data Discharges Clinical Functioning



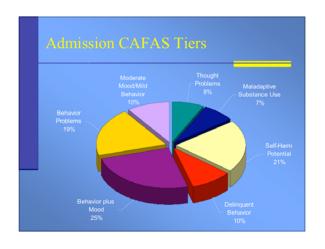




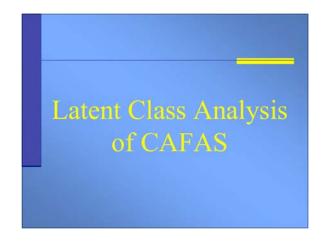




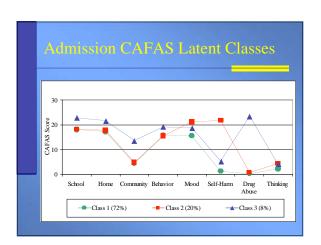
# Classifying CAFAS scores into tiers Thought Problems; 20 or higher on the Thinking subscale Maladaptive Substance Use; 20 or higher on the Substance Use subscale Self-Harmful Potential; 20 or higher on the Self-Harmful subscale or 30 on the Mood/Emotions subscale Delinquent Behavior; 20 or higher on Community subscale Behavior Problems with Moderate Mood Disturbance; 20 or higher on School/Work, Home, or Behavior Toward Others subscale; and 20 on Mood/Emotions subscale Behavior Problems; 20 or higher on School/Work, Home, or Behavior Toward Others subscales Moderate Mood/Mild Behavior Problems; No subscales higher than 10 except for Mood/Emotions, which can be as high as 20



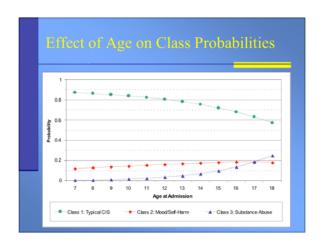
Differences	s am	one	CA	FA	SG	rour	18	
Differences among CAFAS Groups								
	Group 1	Group 2	Group 3	Group 4	Group 5	Group 6	Grou 7	
Percent of Total	8%	7%	21%	10%	25%	19%	10%	
Demographic		الا سيريانا	thomas a	Same in	The same		Commen	
Mean Age (years)	12.9	15.1	13.2	13.1	11.7	11.7	12.2	
Male (%)	48.3	42.6	33.6	65.8	54.5	61.4	51.5	
Clinical						Comme		
Behavior Dx (%)	50.0	63.8	44.3	74.7	62.6	71.2	57.4	
Mood Dx (%)	38.3	46.8	50.3	24.1	31.6	11.4	27.9	
Substance Abuse Dx (%)	5.0	34.0	0.0	2.5	0.0	0.8	0.0	
Psychosis Dx (%)	6.7	0.0	0.7	0.0	0.5	0.0	0.0	
Recent Hospitalization	15.0	12.8	19.5	3.8	5.3	0.8	2.9	
Clinical Functioning								
MCGAS	39.9	41.2	40.4	40.5	42.6	42.8	43.4	
Ohio Problem	36.3	39.3	38.4	35.0	35.5	32.2	28.8	
Ohio Functioning	32.4	33.7	37.1	35.4	37.2	37.3	44.0	
CAFAS Total Score	113.7	131.3	97.9	106.6	79.5	61.1	34.1	

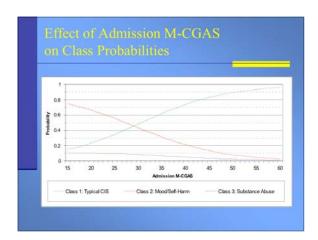


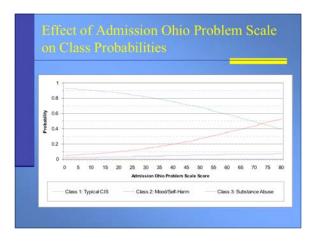
# What is LCA and why use with CIS? LCA is a method for identifying sub-groups (classes) within a larger population based upon similar patterns of responding to measures Why use with CIS? CAFAS tiers were developed from patterns observed in general outpatient treatment settings CIS serves a more severe SED population than the typical outpatient treatment model As a result, sub-groups of CIS clients based on CAFAS may be different from what would be expected in a broader treatment setting

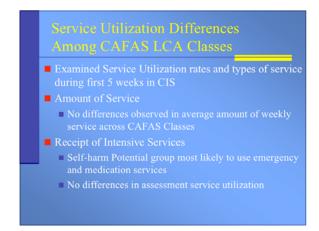


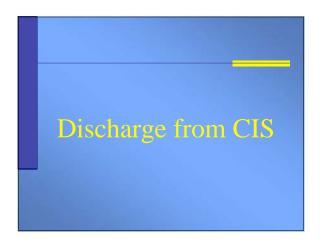
Differences am	ong CAI	FAS LCA	Classes
	Mod. Behavior	Self-harm	Substance
	and Mood	Potential	Abuse
Percent of Total	72%	20%	8%
Demographic			
Mean Age (years)	12.3	13.3	15.1
Male (%)	58.1	39.8	49.2
Clinical			
Behavior Dx (%)	67.2	42.8	53.8
Mood Dx (%)	28.6	59.6	38.5
Substance Abuse Dx (%)	0.3	1.2	29.2
Recent Hospitalization	6.3	22.9	13.8
Clinical Functioning			
MCGAS	43.3	40.3	41.4
Ohio Problem	33.3	39.2	38.0
Ohio Functioning	38.5	36.7	34.2
CAFAS Total Score	75.1	104.5	129.4

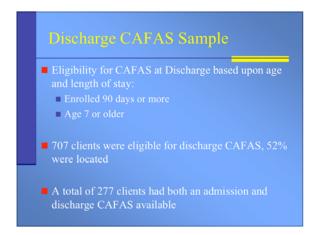


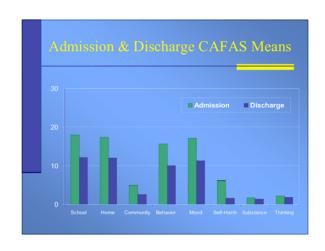


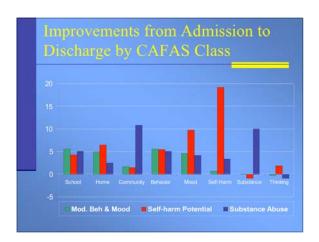


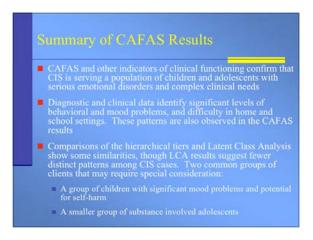




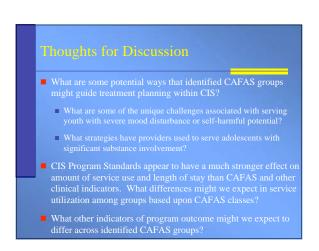








## Summary of CAFAS Results (Continued) Comparisons across three identified CAFAS groups reveals significant variation in demographic and clinical characteristics, and indicators of functioning CAFAS groups do not appear to have a significant impact on service utilization – though there greater use of emergency and medication services for children identified in the Self-harm potential group Similarly, CAFAS groups do not differ with respect to length of stay. There is significant variation in outcomes among CAFAS groups – although all groups significantly improve, levels of improvement are strongest among those with the greatest levels of impairment (particularly on the scales that were most impaired).



# Thoughts for Discussion • From the perspective of the state official overseeing the operation of this program in the context of the full system of care, three broader conclusions can be drawn: • CAFAS outcome data can help to validate the cost of the CIS program and the method of managing the providers through service authorization and network management practices. • The state can establish standards for access, value and outcomes and manage providers according to those standards. The findings demonstrate compliance in the lion's share of activities under CIS and the value of the service authorization and network management strategies – including quality improvement. • The combination of the outcome data and the active management of providers has afforded DCYF the opportunity to establish and implement performance improvement strategies in key areas such as access to services (i.e. no waiting list), increased focus on family assessment and family treatment, and prioritizing services for populations most at risk, including children who are discharged from inpatient hospitalization and score very high on CAFAS.

# Reporting of results to providers and stakeholders has implications for improving the capacity of the state to establish and implement accountability and performance improvement initiatives. This reporting provides an accepted platform to discuss, debate and plan for the continued development of the Rhode Island system of care. The Division of Children's Behavioral Health continues to review the implications of the evaluation results (including CAFAS analyses) for CIS to inform the allocation of resources, refine performance improvement strategies, and become more effective in the management of the full continuum of the children's behavioral health system. The growing "data culture" established among stakeholders have served as a credible platform in the establishment and implementation of the standards for Children's Emergency Services and helped the Department build working relationships with all stakeholders.

