

Data Analytics Fellowship Academy (DAFA)

CPMT Quantitative Report Out:

Ensuring an Effective Foster
Care Prevention System for
Families of Children with
Behavioral Health Care Needs



Fairfax County

Department of Family Services

June 26, 2020

DAFA Class of 2020!



- What are the characteristics of children and youth receiving CSA foster care prevention (FCP) services?
- ❖ What are the needs of children and parents receiving FCP services and what services are they receiving?
- ***** Which FCP services are effective in addressing which needs?
- Are there combinations of FCP services that produce better outcomes?
- ❖ Is there a relationship between cost of services or length of services and outcomes? Does it vary by need addressed or by type of service?



The Fellows' program starts with a charge from leadership

Ensuring an effective foster care prevention system for families of children with behavioral health care needs



CSA Cohort (n=1368)

- Children who were served in CSA with a Foster Care Prevention Service
 - Foster Care Abuse/Neglect Prevention
 - Child in Need of Services (CHINS)
 Prevention
 - CSA Parental Agreement
 - Wrap-Around Services for Students with Disabilities
 - Non-Mandated Services
- Those who first received CSA services from FY 16 though FY 18

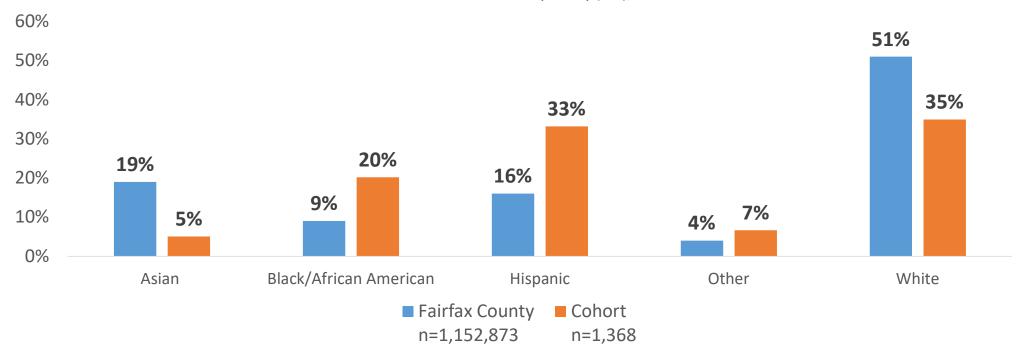
Preliminary Data Analysis Findings: What did the Quantitative Data tell us?

There is an overrepresentation of Hispanic children and Black or African American Non-Hispanic children

Identity Group Distribution

2018 (FFX); FY16-19 (Cohort)

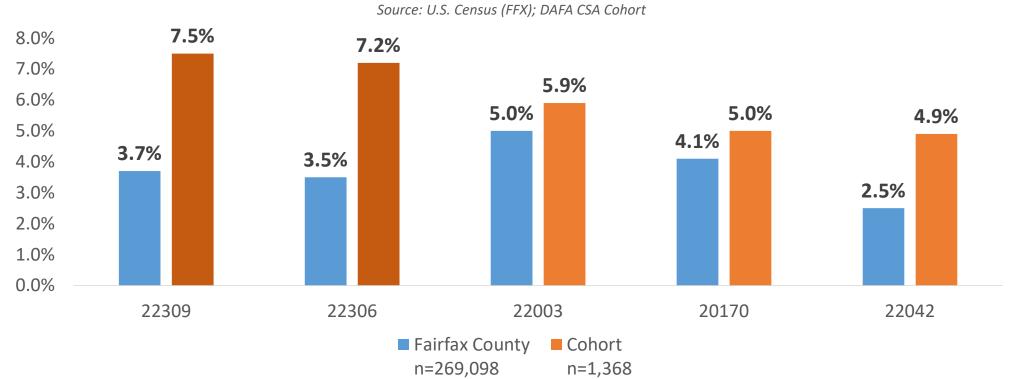
Source: U.S. Census American Community Survey (FFX); DAFA CSA Cohort



The largest concentration of children in the cohort live in 22306 and 22309.



2018 (FFX); FY1-19 (Cohort) Source: U.S. Census (FFX); DAFA CSA Cohort

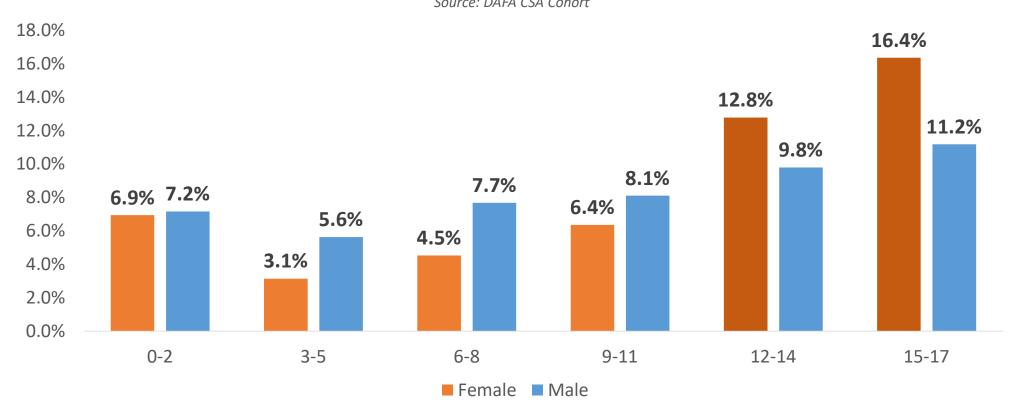


We see higher rates of teenage girls in the cohort

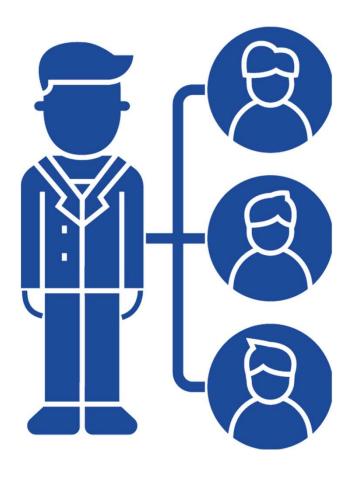
Sex Distribution by Age Grouping

FY16-19 n=1368

Source: DAFA CSA Cohort



The Importance of Referral Source

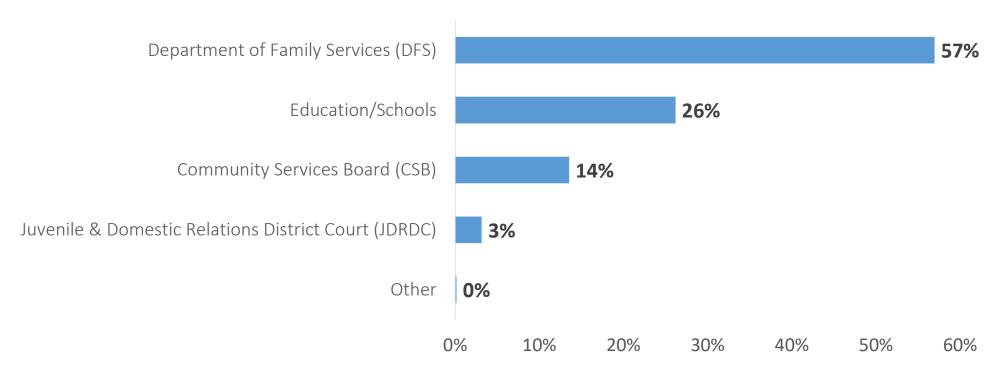


Most referrals are received from DFS

Referral Source Percentages

FY16 - FY18 n=1368

Source: DAFA CSA Cohort



Community Services Board (CSB)

Demographic Findings by Referral Source:



- Identity
 Group: 11%
 Black/AA
- Age: 95% teenagers
- Sex: 71% female



Department of Family

(DFS)

Services

- Identity
 Group: 76%
 Non-White
 - **Age:** 25% age 0-2
 - Sex: 50% female/ male



Fairfax County Schools

- Identity
 Group: 54%
 White
- Age: 64% teenagers
- **Sex:** 59% male

CANS Scores by Domain Assessing Needs and Outcomes





- Child Behavioral/Emotional Needs (CN)
- Child Risk Behaviors (RB)
- Caregiver Needs and Strengths (CG)

CANS Scoring: Actionable/Non-Actionable

Non-Actionable

0

- No evidence of need
- No reason to address

1

- Watchful/ waiting
- Prevention

Actionable

2

- Interfering with family life
- Need to address issue

3

- Dangerous level of need
- Immediate attention



Challenges in Measuring Need

- At minimum, the CANS has 5 domains and 50 different items, where do we even start?
- How do we measure both need and outcomes using the CANS?



There are multiple ways to analyze CANS scores

Identified: Domains of interest

- Child Behavioral/Emotional Need
- Child Risk Behaviors
- Caregiver Strengths and Needs

Measured: Percent of children actionable per item

Characterizes the level of need per item.

Measured: Total number of actionable Items (TAI)

- Shows the scale of actionable items.
- The median TAI identifies the number of actionable items for the "average" child/caregiver.



CANS: Child Behavioral/ Emotional Needs (CN)

CHILD BEHAVIORAL / EMOTIONAL NEEDS

- 0 = No evidence of problems
- 1 = History, Watch/Prevent
- 2 = Causing problems, consistent with diagnosable disorder
- 3 = Causing severe / dangerous problems

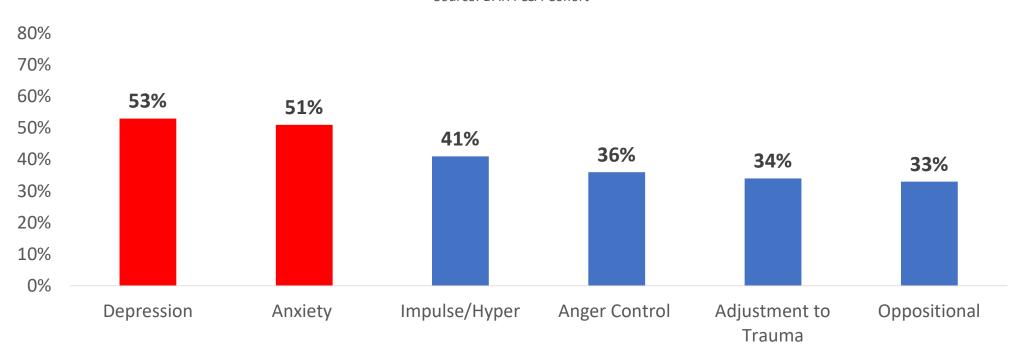
	0	1	2	3
Psychosis	0	0	0	0
Impulse / Hyper	0	0	0	0
Depression	0	0	0	0
Anxiety	0	0	0	0
Oppositional	0	0	0	0
Conduct	0	0	0	0
Adjustment to Trauma (2)	0	0	0	0
Anger Control	0	0	0	0
Substance Use (3)	0	0	0	0
Eating Disturbance	0	0	0	0

Depression and Anxiety were the most frequently assessed initial Child Needs

Percentage of Children with an actionable item in Child Needs

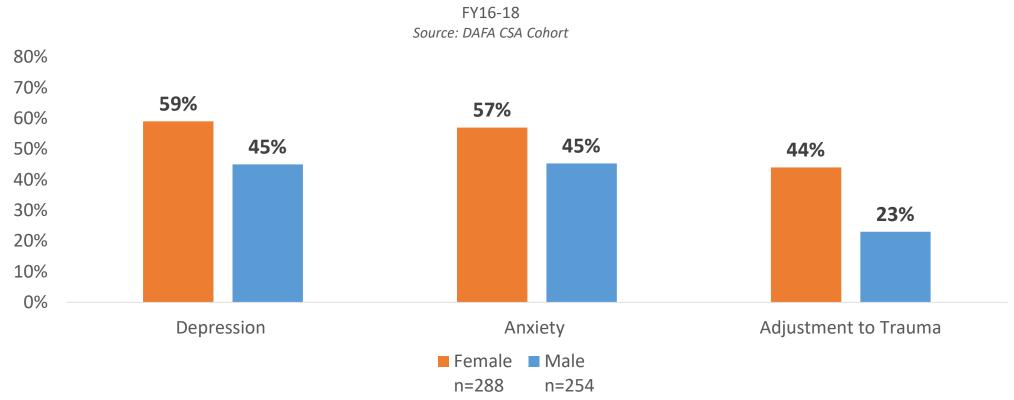
FY16 to 19 n=542

Source: DAFA CSA Cohort



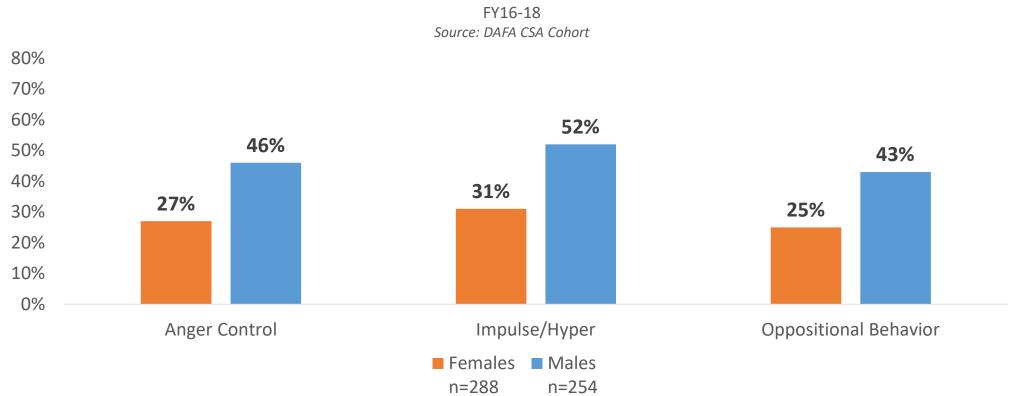
Females are more likely to have Depression, Anxiety, and Adjustment to Trauma as actionable

1st CANS: Percentage of Child Behavioral/Emotional Needs by Sex



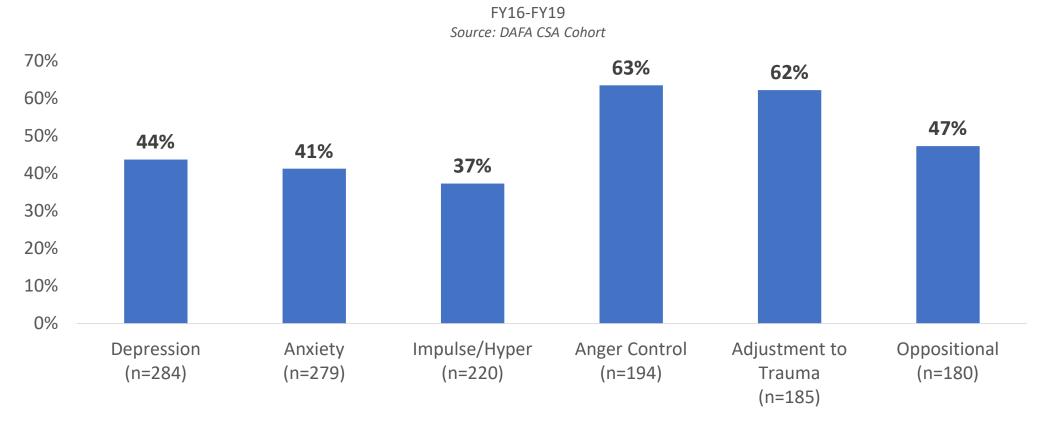
Males are more likely to have Anger, Impulse/ Hyper, and Oppositional Behavior as actionable

Percentage of Child Behavioral/Emotional Needs by Sex



Child needs decreased after receiving services, We still worry about depression, anxiety, and Impulse/Hyper.

Improvement Rates (Actionable to Non-Actionable) for Child Behavioral/Emotional Need

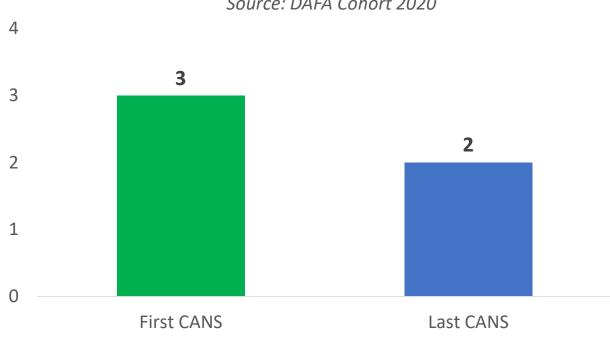


After receiving services, the median number of actionable items dropped for CN

Median CN Total Actionable Items for First and Last CANS

FY16-18 n=542

Source: DAFA Cohort 2020





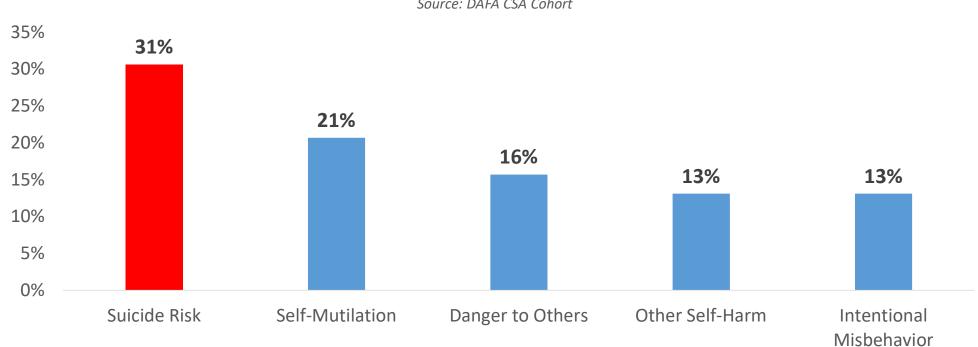
CANS: Child Risk Behaviors (RB)

CHILD RISK BEHAVIORS							
0 = No evidence of problems	2 =	2 = Recent, Act					
1 = History, Watch/Prevent	3 =	3 = Acute, Act Immediately					
	0	1	2	3			
Suicide Risk	0	0	0	0			
Self-Mutilation	0	0	0	0			
Other Self-Harm	0	0	0	0			
Danger to Others (4)	0	0	0	0			
Sexual Aggression (5)	0	0	0	0			
Runaway (6)	0	0	0	0			
Delinquent Behavior (7)	0	0	0	0			
Fire Setting (8)	0	0	0	0			
Intentional Misbehavior	0	0	0	0			
Sexually Reactive Behavior	0	0	0	0			
Bullying	0	0	0	0			

Suicide Risk is the most frequent actionable item for Child Risk Behaviors

1st CANS: Percentage of Children with Actionable Score by Top RB Items
FY16-19

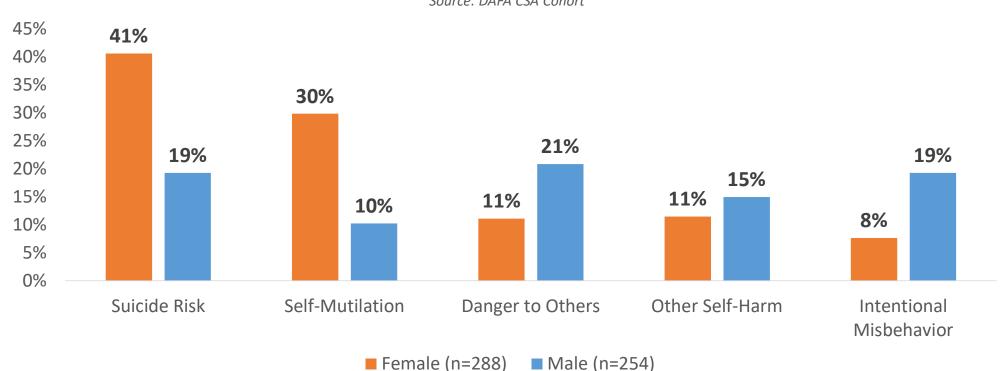
n=542 Source: DAFA CSA Cohort



Typically, Females are more likely to harm themselves; Males more likely to harm others

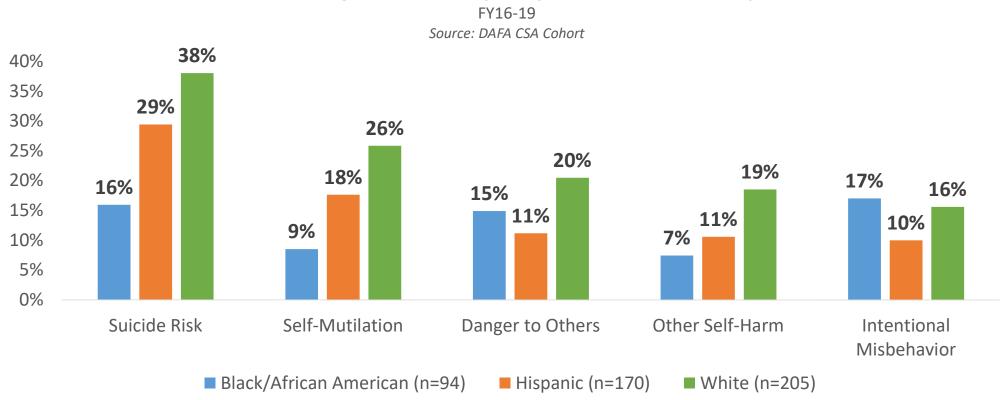
1st CANS: Percentage of Each Sex with Actionable Score by Top RB Items

FY16-19 Source: DAFA CSA Cohort



White children are more likely to present with all these risk behaviors except for Intentional Misbehavior

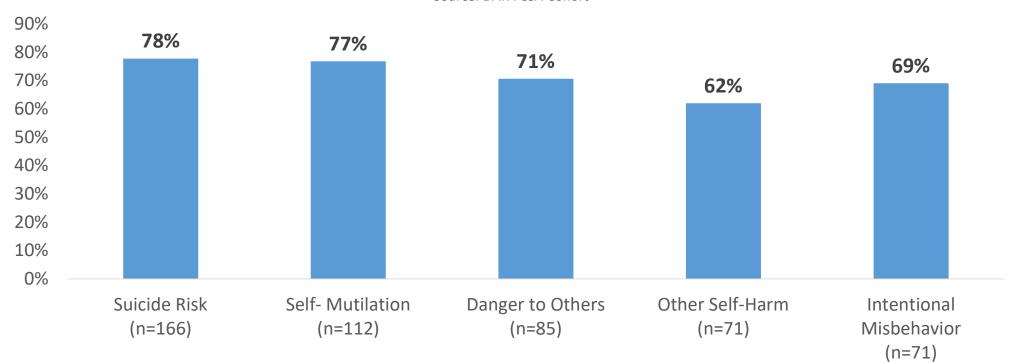
1st CANS: Percentage of Each Identity Group with Actionable Score by RB Item



Risk behaviors decreased in all items. We're glad to see the level of reduction in Suicide Risk.

Improvement Rates (Actionable to Non-Actionable) for Child Risk Behaviors

FY16-FY19
Source: DAFA CSA Cohort



After receiving services, the "average" number of actionable items was reduced for Risk Behaviors.

0



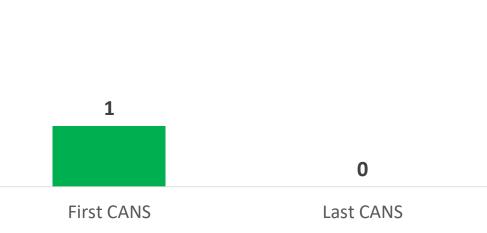
Median Total RB Actionable Items for First and Last

CANS

FY16-18

n=542

Source: DAFA Cohort 2020



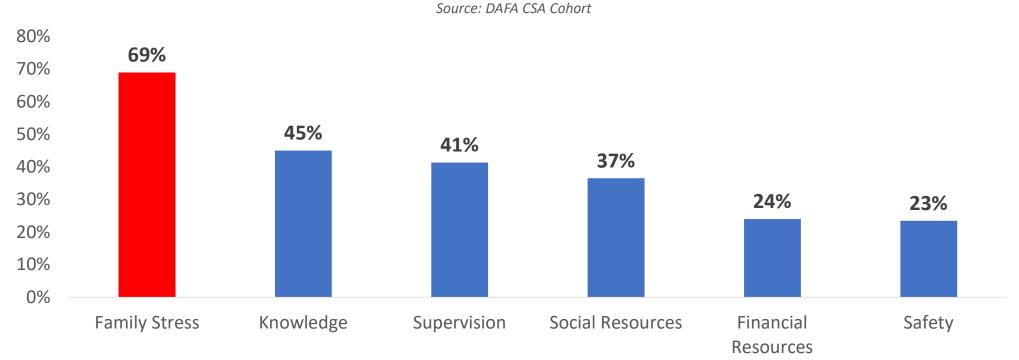
CANS:
Caregiver
Strengths
and Needs
(CG)

PARENT/GUARDIAN/CAREGIVER# STRENGTHS AND NEEDS							
O Not applicable – No Caregiver Identified							
0 = No evidence of problems	2 =	2 = Moderate Needs					
1 = Minimal Needs	3 =	3 = Severe Needs					
	0	1	2	3			
Supervision	0	0	0	0			
Involvement with Care	0	0	0	0			
Knowledge	0	0	0	0			
Organization	0	0	0	0			
Social Resources	0	0	0	0			
Residential Stability	0	0	0	0			
Physical Health	0	0	0	0 0			
Mental Health	0	0	0	0			
Substance Use	0	0	0	0 0 0			
Developmental	0	0	0	0			
Accessibility to Care	0	0	0	0			
Family Stress	0	0	0	0			
Self Care/Daily Living	0	0	0	0			
Employment	0	0	0	0			
Education	0	0	0	0			
Legal	0	0	0	0			
Financial Resources	0	0	0	0			
Transportation	0	0	0	0			
Safety	0	0	0	0			

Family Stress is the most frequent caregiver need, occurring initially in 69% of children

1st CANS: Percentage of Children with Actionable Score by Top CG Items

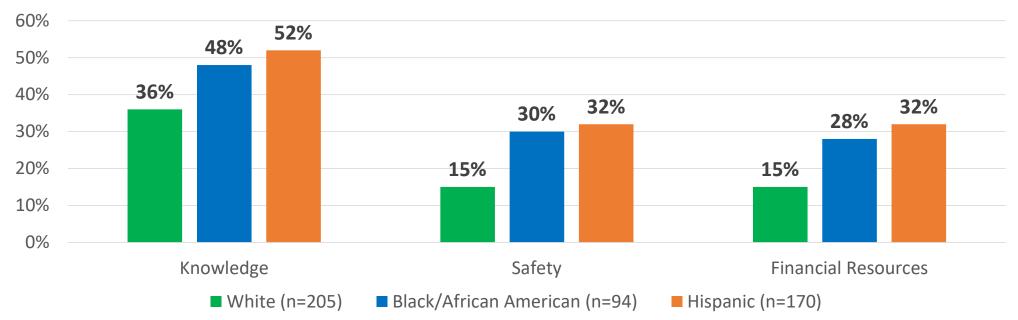
FY16-18 n=542



White caregivers are more less likely to present with these Caregiver Needs

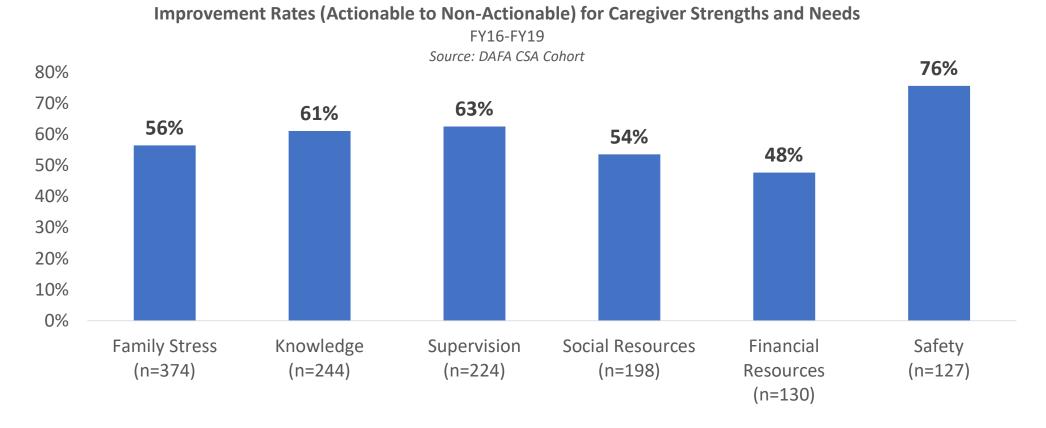
1st CANS: Percentage of Each Identity Group with Actionable Score by CG Item

FY16-19 Source: DAFA CSA Cohort



Rates for actionable CG decreased in all items. We still worry about Family Stress.

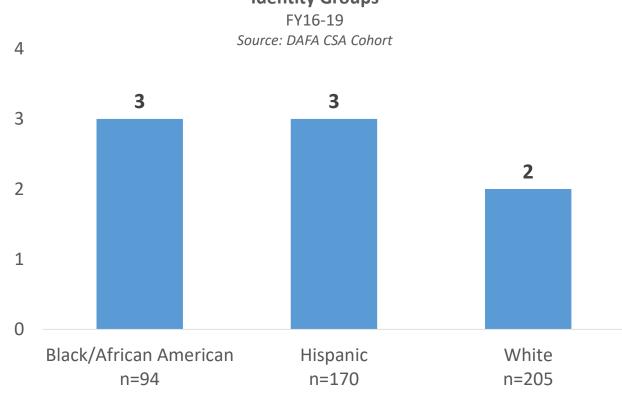
ve still worry about raining stress.



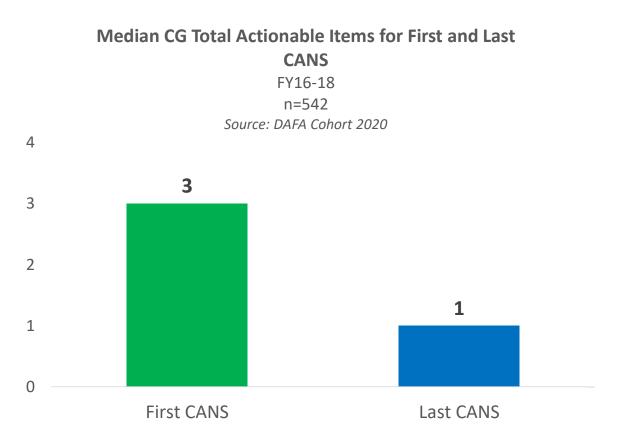
White families had fewer median TAIs for CG compared to Black or African American and Hispanic families.



1st CANS: Median Actionable Items for CG Domain by Top 3
Identity Groups



After receiving services, the "average" number of actionable items was reduced for CG





CANS SCORES BY REFERRAL SOURCE



First CANS Findings by Referral Source: CSB

CSB

n=120

CN: <u>Extremely high</u> rates of Depression and Anxiety

RB: <u>Extremely high</u>
Suicide Risk and <u>highest</u>
Self-Mutilation

CG: <u>Lowest rates</u> for Supervision and Social Resources









88%
Depression

73% Suicide Risk

33% Supervision

76% Anxiety

47% Self-Mutilation

28%
Social Resources

Summarized CANS Median TAIs for DFS

Change in the "Average" number of Actionable Items

CSB First CANS

n=120

CN: 3

RB: 2

CG: 2

CSB Last CANS

n=120

CN: 3

RB: 0

CG: 1

First CANS Findings by Referral Source: DFS

DFS

CN: <u>Lower on all</u> except Adjustment to Trauma – <u>highest</u> at 40%

RB: <u>Lowest by far</u> for Suicide Risk and Self-Mutilation

CG: <u>10x more likely</u> to have AI on Safety. <u>Highest</u> % on Knowledge







40% Adjustment to Trauma

13% Suicide Risk

53%

Safety

5%
Self-Mutilation

51% Knowledge

Summarized CANS Median TAIs for DFS

Change in the "Average" number of Actionable Items

DFS First CANS

n = 207

CN: 1

RB: 0

CG: 4

DFS Last CANS

n = 207

CN: 0

RB: 0

CG: 2

First CANS Findings by Referral Source: Schools

Schools

CN: Highest % on Impulse/Hyper, Anger, and Oppositional

RB: *Highest* % of Danger to Others and Other Self-Harm

CG: <u>Highest rate</u> for Family Stress and Social Resources











61% Impulse/Hyper

55% **Anger Control**

51% Oppositional

27% **Danger to Others**

20% **Other Self-Harm**

74% **Family Stress**

43% **Social Resources**

Summarized CANS Median TAIs for the Schools

Change in the "Average" number of Actionable Items

Schools First CANS

n=199

CN: 3

RB: 1

CG: 3

Schools Last CANS

n=199

CN: 2

RB: 0

CG: 1

CSA SERVICES AND COST

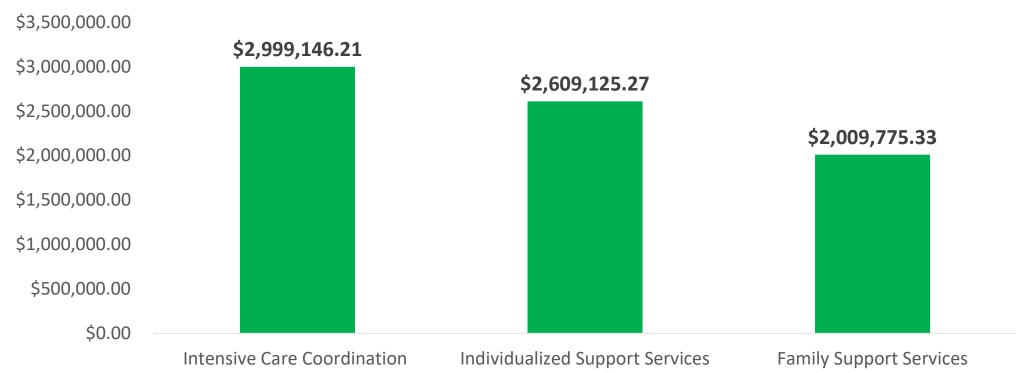


These three services make up 51% of the total amount of funds spent on FCP

CSA Services That Are Over 1 Million In Total Service Cost

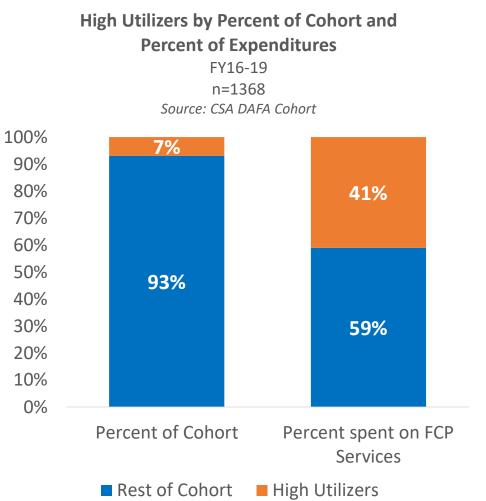
FY16-19

Source: CSA DAFA Cohort



High Utilizers

- The top 7% of clients account for 41% of the overall cost spent on foster care prevention services.
- Range of money spent per child:
 \$37,184 to \$166,352
- Median amount spent per child: \$49,992



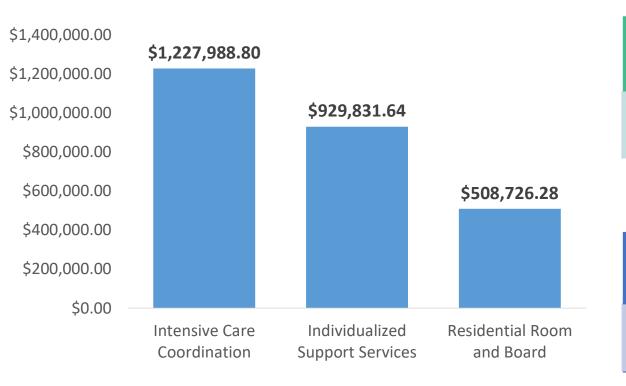
Key Findings on High Utilizers:

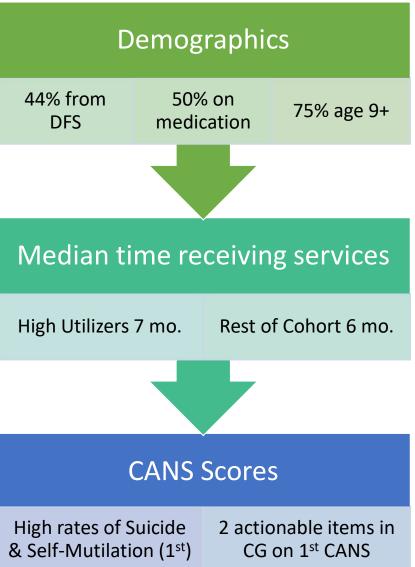
Top 3 Services Spent by High Utilizers

FY16-FY18

n=95

Source: High Utilizers – Services and Cost





Services and CANS Scores



Child Behavioral Needs Outcomes by Services Improvement Rates (Actionable to Non-Actionable)



Depression	ISS (n=167)	44%
	ICC (n=138)	39%
	Residential (n=94)	35%
Anxiety	ISS (n=158)	39%
	ICC (n=129)	38%
	Residential (n=83)	36%
Impulse/ Hyper	ISS (n=113)	42%
	ICC (n=82)	40%
	FSS (n=48)	33%

Child Risk Behavior Outcomes by Services Improvement Rates (Actionable to Non-Actionable)



Suicide Risk	ISS (n=108)	81%
	ICC (n=106)	75 %
	Residential (n=78)	73 %
Self- Mutilation	ISS (n=71)	86%
	ICC (n=70)	79%
	Residential (n=52)	69%
Danger to Others	ISS (n=40)	65%
	ICC (n=33)	67%
	ICC-FSP (n=21)	76 %

Caregiver Needs Outcomes by Services Improvement Rates (Actionable to Non-Actionable)



Family Stress	ISS (n=162)	59%
	ICC (n=128)	55%
	FSS (n=113)	59%
Knowledge	FSS (n=87)	56%
	ISS (n=87)	64%
	ICC (n=69)	59%
Supervision	ISS (n=82)	62%
	FSS (n=74)	65%
	ICC (n=61)	61%

Children with Subsequent CPS/Foster Care Involvement





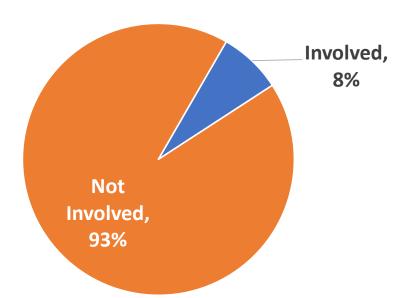


A small percentage of our cohort has subsequent involvement with CPS or Foster Care.

Subsequent CPS Involvement

FY 16-19 n=1368

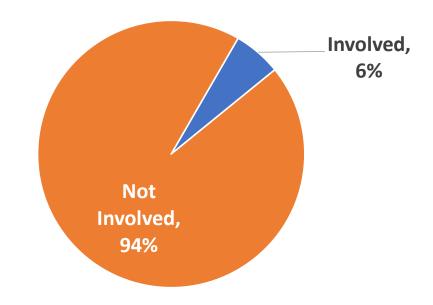
Source: DAFA CSA Cohort



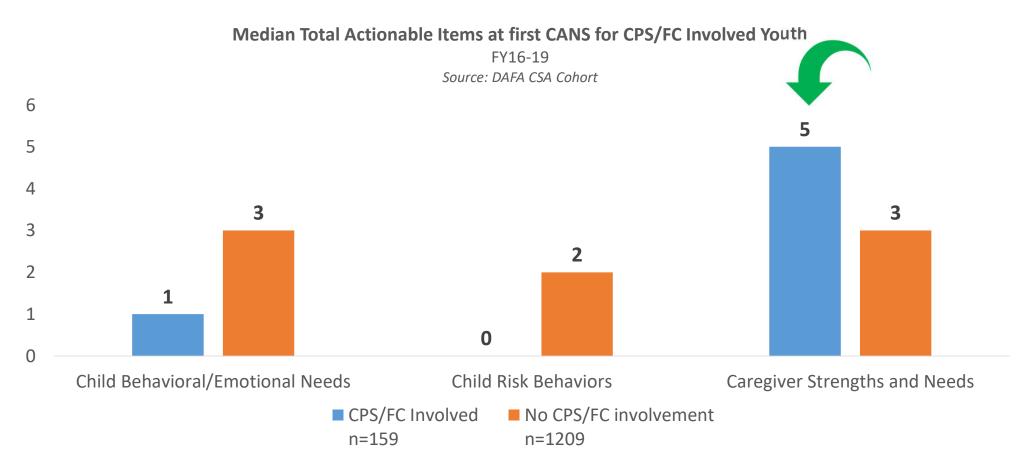
Subsequent Foster Care Involvement

FY16-19 n=1368

Source: DAFA CSA Cohort

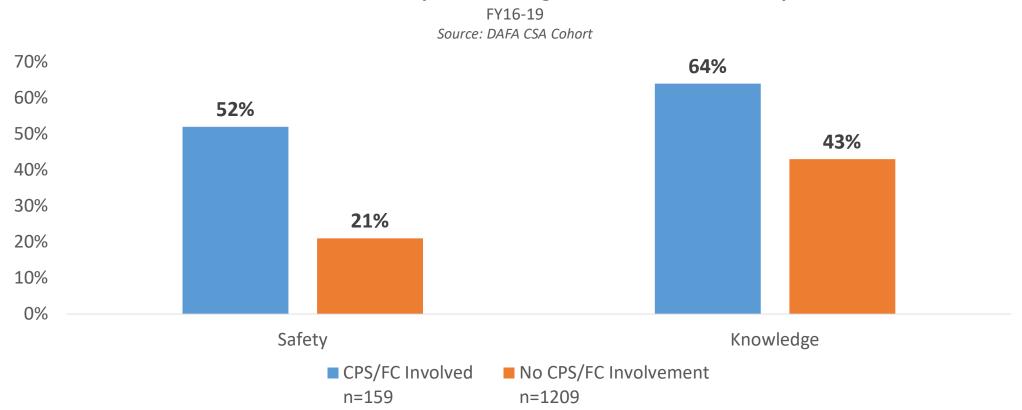


CPS/Foster Care involved children have few actionable CN/RB but many actionable CG items

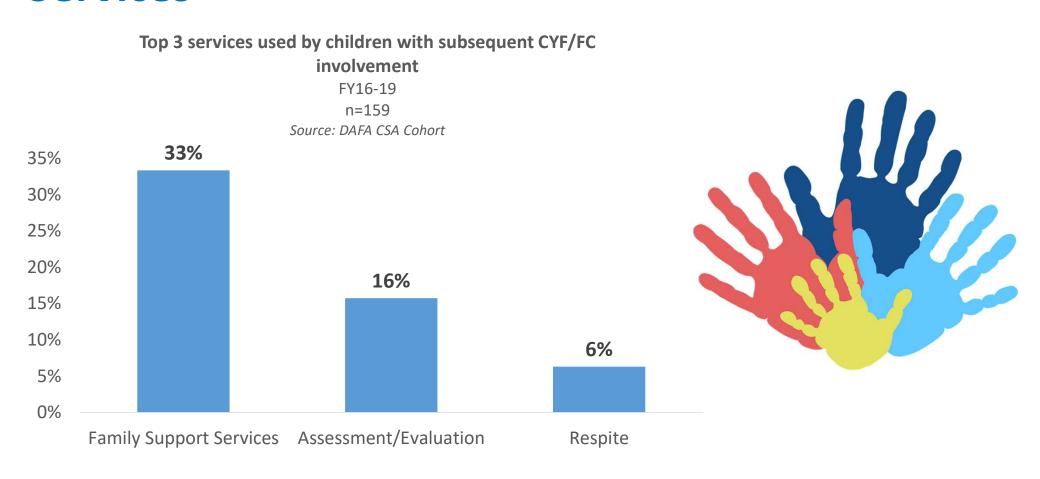


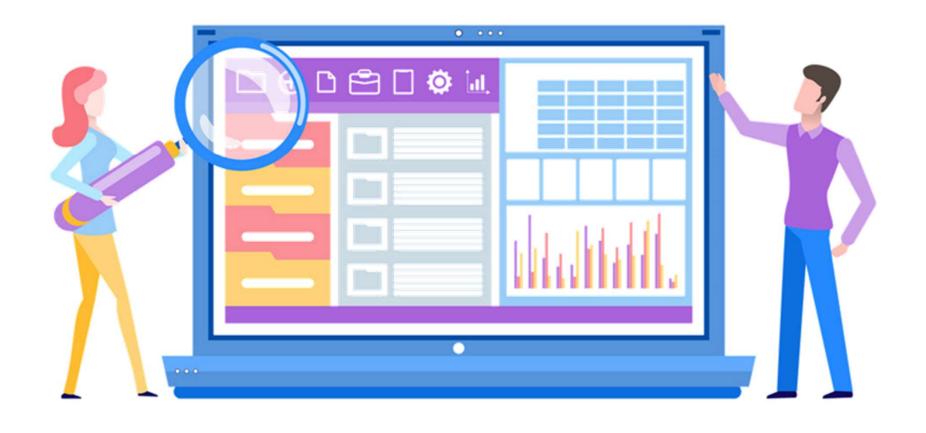
Actionable rates of Knowledge and Safety are higher for children with subsequent CPS/FC involvement





The most widely used service is Family Support Services





Topics for Further Analysis

• Medications/diagnosis info used for referrals? **Medications and** • Collection of autism and medication data Diagnoses Subsequent Why do children enter Foster Care or CPS? **CPS/Foster Care** • Explore non-CSA services used. **Involvement** How do high utilizers initially present/diagnoses? **High Utilizers** Screening for high utilizers at intake? • Referral process differences by referral sources? **Referral Source and Process** Need for case management training? Utilization Rate **Other Topics** • Implicit Bias

Final Thoughts to Consider

- Data/Memo Sharing
- Data Systems

