

Predictors of Family Burden and Critical Attitudes towards Youth Presenting at a Specialty Clinic for Youth Clinical High Risk (CHR) for Psychosis



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Background

- Families of individuals with schizophrenia experience considerable burden.¹
- Recent advances in earlier treatment for youth at clinical high risk (CHR) for psychosis may provide opportunities to prevent or reduce family burden.
- This study examined rates of burden among families of youth at CHR, as well as predictors of family burden.

Methods

- Youth and family members completed standard clinical questionnaires when they attended a consultation at the Center for Early Detection, Assessment and Response to Risk (CEDAR) Clinic, a specialty CHR program in Boston.
- With approval by the BIDMC and DMH IRBs, these data were de-identified and analyzed.
- The family questionnaire assessed subjective and objective burden⁴ and demographic information. Youth clinical and demographic factors were also examined, including age, gender, race/ethnicity, CHR symptoms⁵, and social and role functioning⁶.
- Hierarchical linear regressions were used to examine predictors of objective and subjective family burden among youth meeting CHR criteria on the SIPS. Predictors were progressively entered in four blocks: demographics, social / role functioning, SIPS⁵ positive symptoms, and SIPS negative symptoms. Missing data were imputed using the full information maximum likelihood function in MPlus.

Table 1: Demographics (n=59)					
Client Age (years)	Mean (SD);	17.9 (3.3)			
	Range	13-30			
Client Gender		41 Male			
		16 Female			
		2 Other			
Client Racial	White	34 (60.7%)			
Identification	Black/African American	6 (10.7%)			
(n=56)	Hispanic/ Latino	5 (8.9%)			
	Asian	3 (5.4%)			
	Interracial or other	5 (8.9%)			
Client Highest Level	Some grade school, not completed	33 (60%)			
of Education (n=55)	high school				
	Graduated high school	6 (10.9%)			
	Some college	14 (25.5%)			
	Graduated college	1 (1.8%)			
	Advanced degree	1 (1.8%)			
Family member	Parent	56 (94.9%)			
relationship to	Sibling	1 (1.7%)			
client	Grandparent	2 (3.4%)			
Family member	Completed part of high school	1 (1.8%)			
highest level of	Graduated high school	7 (12.7%)			
education (n=55)	Some college	10 (18.2%)			
	Graduated 4-year college	20 (36.4%)			
	Advanced degree	17 (30.9%)			

Burden Assessment Scale for Families of the Seriously Mentally III⁴ (BAS) 19 Items assessing burden of caring for a relative with mental health challenges: 2 3 4

Some

A Little

Table 2: BAS (n=59)				
Burden	Mean (SD)			
Dimension				
Overall Burden	2.15 (0.61)			
Subjective Burden	2.19 (0.72)			
Objective Burden	2.10 (0.69)			

Not At All



A Lot

Table 3: Most Endorsed BAS Items (n=59)

Objective Burden		Subjective Burden		
Daily practical challenges such as time/ financial costs		Personal or subjective suffering such as worry		
Item	Mean (SD)	Item	Mean (SD)	
Found the household routine was upset.	2.53 (1.04)	Worried about the future of your relative.	3.38 (1.02)	
Found it difficult to concentrate on your own activities.	2.52 (.96)	Worried about how your behavior might make your relative's problem worse.	2.46 (1.00)	
Had to change your personal plans like taking a new job, or going on vacation.	2.26 (1.26)	Felt guilty because you were not doing enough to help.	2.40 (1.08)	
Cut down on leisure time	2.25 (1.08)	Found the stigma related to your relative's emotional/thinking difficulties upsetting	2.26 (1.18)	

Predictors of Burden

Subjective Burden: Family members of clients who were more highly educated (B = -.33, p =<.05) reported lower subjective burden. Higher unusual thought content/ delusional ideas (B=.46, p<.01) and higher impairment in experience of emotions/self (B = .45, p = .<.05) were associated with higher subjective burden. The regression model accounted for 41% of the variance in subjective burden.

Objective Burden: Family members of clients who had higher levels of social anhedonia (B = -.55, p < .01) reported less objective burden. Family members of clients who had higher levels of difficulty expressing emotion (B = .48, p < .01) reported higher objective burden. Overall, the regression model accounted for 48% of the variance in objective burden. Positive symptoms did not predict objective burden.

See handout for footnotes and references

Table 4. Hierarchical Linear Regression, : Subjective Burden (n=59)						
	Beta	S.E.	p-value	R^2		
				change		
Age	24	.15	.12			
Male	03	.16	.86			
White	21	.25	.39			
College-educated parent(s)	33	.13	<.05	.04		
Social functioning	01	.23	.96			
Role functioning	14	.18	.41	.10		
*Unusual thought	.46	.16	<.01			
content/delusional ideas						
*Suspiciousness/persecutory	10	.13	.44			
ideas						
*Grandiose ideas	.11	.18	.53	.12		
*Perceptual	21	.16	.19			
abnormalities/hallucinations						
*Disorganized communication	29	.18	.12			
**Social anhedonia	36	.22	.09			
**Avolition	04	.20	.84			
**Expression of emotion	11	.18	.56			
**Experience of emotions/self	.45	.19	<.05			
**Ideational richness	10	.16	.54	.15		
Family attitudes	36	.22	.09	.00		
Cumulative $R^2 = .41$ (p < .001)						

*SIPS Positive Symptoms **SIPS Negative Symptoms

Table 5. Hierarchical Linear Regression, : Objective Burden (n=59)					
	Beta	S.E.	p-value	R^2	
			·	change	
Age	05	.15	.73		
Male	07	.15	.63		
White	39	.21	.07		
College-educated parent(s)	22	.13	.08	.13	
Social functioning	.21	.19	.25		
Role functioning	.14	.16	.38	.01	
*Unusual thought	02	.15	.92		
content/delusional ideas					
*Suspiciousness/persecutory	.04	.13	.78		
ideas					
*Grandiose ideas	06	.17	.72	.10	
*Perceptual	.00	.14	1.00		
abnormalities/hallucinations					
*Disorganized communication	11	.16	.48		
**Social anhedonia	55	.18	<.01		
**Avolition	.09	.18	.62		
**Expression of emotion	.48	.17	<.01		
**Experience of emotions/self	.00	.18	1.00		
**Ideational richness	02	.15	.90	.22	
Family attitudes	13	.19	.50	.01	
Cumulative $R^2 = .48 (p < .001)$					

*SIPS Positive Symptoms **SIPS Negative Symptoms

Conclusion & Discussion

- Family members of youth at CHR experience mild levels of burden.
- More highly educated family members reported less subjective burden. Greater unusual thought content and difficulty with experiencing emotions were associated with greater subjective burden.
- Surprisingly, greater social anhedonia was associated with less objective burden – perhaps suggesting that individuals at CHR with less social interaction seemed to generate fewer practical concerns for caregivers.
- In this sample, social and role functioning of youth did not predict burden. Also rejecting family attitudes did not predict burden.

Information in Handout