Support for Higher Education in US-Mexico Border Residents

Darrin L. Rogers
Fred Ernst
Espiridión "Al" Borrego
University of Texas – Pan American



Background

- 1/4 of children in U.S. are Hispanic
- By 2030, 1/3 of minors will be Hispanic (U.S. Census Bureau, 2007)
- Hispanics are least likely to earn a college or university degree (Pew Hispanic Center, 2008)
- Support is a strong factor in predicting student success (Gloria et al. 2005; Sciarra & Whitson, 2007)

(Social) Support

- Several scales exist for social support
- Few for academic support
- Most focus on social & emotional support from family
- Some include friends, SO, etc. (Edwards, 2004)
- Little or no assessment of financial, material, practical, paradoxical support
- No attention to support change over time

GHESS

- Global Higher Education Support Scale
- Goals: global view of support for higher education
 - Multiple sources of support
 - Multiple types of support
 - Multiple time periods

GHESS Items

- Sources
 - Educators' ideas
 - Researchers' ideas
 - Student focus groups (summer 2006)
 - Other discussions

GHESS Items

Sampling Domain - Time periods

- Before you started preparing for college
- While you were preparing
- Since you have started college

GHESS Items

Sampling Domain - Types of support

- Traditional social support
- Financial, practical & material support
- Paradoxical support
 - "tough love"=Negative Support
 - "camouflaged sabotage"=Antisupport
- Total number of items in item pool: ≈ 200
- Each item: friends, family, significant other

Data Collection

 412 undergraduates in U.S./Mexico border region university

Age		
18-21	48.8	%
22-25	27.9	0/0
26-29	1.2	0/0
30-34	5.36	0/0
35-38	3.6	0/0
39-53	1.5	%

Gender	
Male	28.4 %
Female	71.1 %

Ethnicity	
Hispanic/Latino	92.7 %
Anglo/Caucasian	5.3 %
Asian American	1.7 %
Native American	1.2 %
Pacific Islander	1.2 %
African American	.7 %
Other	.7 %

Factor Analyses

- Method: Exploratory Factor Analysis (EFA)
 - Looking for latent factors, not just clusters
- 9 separate analyses

	Family	Friends	Significant Other
Time A "Before"	F.A. 1	F.A. 2	F.A. 3
Time B "While"	F.A. 4	F.A. 5	F.A. 6
Time C "Since"	F.A. 7	F.A. 8	F.A. 9

Factor Analysis

- Software: CEFA (Browne, Cudeck, Tateneni & Mels)
 - Can appropriately factor analyze Likert data
- Oblique rotation
- Consider factor loadings > .5
 - This eliminated multiple loadings

Factor Analysis

- Solutions
 - 2- and 3-factor solutions were best for interpretation
- Scale reduction to maximize internal consistency (Raubenheimer, 2004)
- "matching" to create consistent scales

Time A (Before Preparing)

Antisupport

They said, "You should not go to college".

They told me that going to college would hurt my chances of being successful.

When college study was brought up, They would emphasize the importance of other things, instead.

Talking about college or higher education put members of my family in a bad mood.

Positive Support

They told me that getting a college education is important

They told success stories about other people

They helped me make positive educational goals beyond high school.

When I talked about my plans to go to college, I felt like They shared my enthusiasm.

They often invited me to tell them about my worries and anxieties about going to college.

Time B (While Preparing)

Antisupport

When I told them that I planned to go to college, they acted like I was betraying them.

The closer I got to going to college, the more they seemed to pull away from me, emotionally.

...

Positive Support

They told me it was good that I wanted to get more education than they had.

I felt like we became closer to each other as I worked toward going to college.

...

Financial Support

They helped me save or budget to afford college.

They helped me find others who would contribute financially to school expenses.

..

Time C (Since Starting College)

Antisupport

They talk about all the benefits of leaving school before I get my degree.

When I make it clear that I am going to stay in college, I feel that they become colder and less caring (or friendly) toward me.

...

Positive Support

They have given me hugs, kisses, handshakes, smiles, etc., to let me know that they support me going to college.

They have listened to me talk about my difficulties in college.

...

Negative Support

They have made it clear that our relationship will be damaged if I do not succeed in college.

They said they will make things bad for me if I quit school or get low grades.

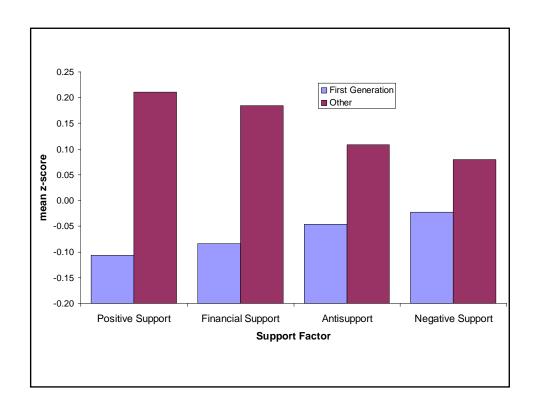
...

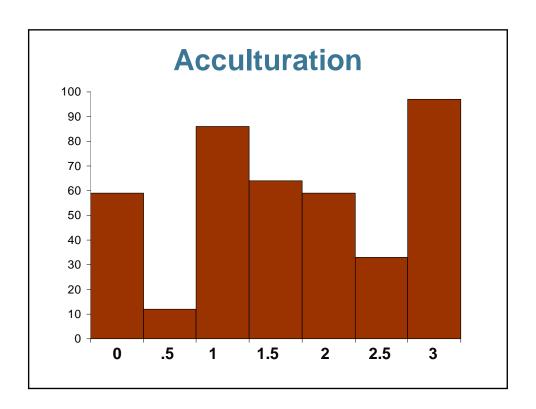
		Fa	mily	Fri	ends		ificant ther		**
	Time A	n=5	a=.89	n=5	a=.87	n=5	a=.90	.92	
Positive Support	Time B	n=5	a=.89	n=5	a=.89	n=5	a=.92	.91	.96
0.00	Time C	n=4	a=.84	n=4	a=.87	n=4	a=.92	.91	
1 '			.94		a=.93		a=.94		
	Time A	n=4	a=.87	n=4	a=.82	n=4	a=.87	.93	
Anti- support	Time B	n=5	a=.88	n=5	a=.87	n=5	a=.89	.93	.98
	Time C	n=5	a=.89	n=5	a=.85	n=5	a=.86	.95	
			.94		a=.94		a=.93		
Financial Support	Time B	n=4	a=.88	n=4	a=.82	n=4	a=.84	.88	
Negative Support	Time C	n=4	a=.81	n=4	a=.76	n=4	a=.70	.88	

Factor Intercorrelations						
	Type of Support					
	Positive	Anti	Negative	Financial		
Positive	1					
Anti	.09	1				
Negative	.31	.55	1			
Financial	.67	.17	.26	1		

Patterns in Support

- Very low endorsement of antisupport
 Nevertheless, strong factor in analyses
- 65% are 1st generation college/university students
- Interesting pattern of support between 1st generation & other students





Work, Acculturation & Support

- No association between acculturation
 & working hours
- No meaningfully large association between acculturation and support factors

Validation of GHESS

- Significant and meaningfully large correlations, in predicted patterns, between factors of the GHESS and...
 - Existing measures of social support
 - Academic support
 - Emotional intimacy
 - Measures of stress & situational distress
 - Self-esteem
 - Self-efficacy (General & Academic)

Conclusion

- The GHESS appears both reliable & valid for measuring a global mix of support factors for college/university students
- Future research will focus on:
 - Expanding the participant groups
 - Refining the measure
 - Predicting academic outcomes