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LONGITUDINAL CHANGE IN ATTACHMENT RELATIONSHIPS AND THEIR IMPLICATIONS FOR ADOLESCENT PSYCHOLOGICAL HEALTH

Adolescence

- A period of dramatic changes in cognition, biology, psychology, and society
- Increase in prevalence and incidence of psychological health issues (Kessler, Berglund, Demler, Jin, Merikangas, & Walters, 2005)
- Psychological health issues and health-risk behaviors precursor to more severe and disabling conditions later in life (WHO, 2010)
- Attachment theory a useful conceptual framework for understanding these relationships
 - Parent and peer relationships central to adolescent adjustment

Attachment Theory

 Bowlby (1969/1997) - it is necessary to explain normal attachment processes in order to fully understand maladaptive variations

• Normative Approach

- Sequential movement of attachment functions
- A peer replaces the parent as primary attachment figure by late adolescence

Individual Differences Approach

- Attachment working models or expectancies
- Guide future interactions with others

Adolescent Psychological Health

• Normative Approach

- Placement of fathers and friends in hierarchy predictive of psychological distress (Rosenthal & Kobak, 2010)
- Peers no longer indicative of externalizing behaviors by late adolescence (Nomaguchi, 2008)

Individual Differences Approach

- Anxious attachment most predictive of poor psychosocial outcomes (Cooper, Shaver, & Collins, 1998; Cooper, Albino, Orcutt, & Williams, 2004)
- Anxiety more predictive of psychological distress (Mikulincer & Shaver, 2007)

The Present Study

- Investigates the longitudinal model of attachment formation
- Hazan and Zeifman (1994)
- Friedlmeier and Granqvist (2006)
- Investigates the relative importance of different aspects of attachment for adolescent psychological health
- Normative attachment reorganization
- Individual differences in attachment expectancies

Method

Wave One (*N* = 511)

(164 Males; 347 Females)

Early Adolescents (*n* = 183):

- 64 Males; 109 Females
- 11.83 to 14.24 years (*M* = 12.83, *SD* = .51)
- 20.2% (27 Males; 10 Females) reported romantic relationships

Late Adolescents (*n* = 328):

- 90 Males; 238 Females
- 15.41 to 18.50 years (*M* = 17.13, *SD* = .61)
- 40.5% (28 Males; 105 Females) reported romantic relationships
- Predominantly from intact families of middle to upper SES class

Wave Two (*N* = 156) (29 Males; 127 Females)

Early Adolescents (*n*= 53):

- 9 Males; 44 Females
- 13.08 to 15.50 years (*M* = 13.81, SD = .45)
- 7.5% (0 Males; 4 Females) reported romantic relationships

Late Adolescents (*n* = 103):

- 20 Males; 83 Females
- 17.17 to 20.75 years (*M* = 18.35, SD = .65)
- 50.9% (10 Males; 42 Females) reported romantic relationships
- Predominantly from intact families of middle to upper SES class

Method

Wave One

- Self-report questionnaire packages administered in the classroom during normal school hours

Wave Two

- Online self-report survey completed in own time
- Two email reminders (one month apart)
- Lottery incentive (i.e., 5 pairs of movie tickets)

'Youth and Relationships' Questionnaire Package contains:

- Modified Attachment Network Questionnaire (modified ANQ; Doherty & Feeney, 2004)
- Experiences in Close Relationships Revised General Short Form (ECR-R-GSF; Wilkinson, 2010)
- Centre of Epidemiological Studies Depression Scale (CES-D; Radloff, 1977)
- Self-Liking/Self-Competence Scale Revised Version (SLSC; Tafarodi & Swann, 2001)
- Adolescent Stress Questionnaire (ASQ; Byrne, Davenport, & Mazanov, 2007)
- School Attitude Scale (SAS; Wilkinson, & Kraljevic, 2004)

Results: All Adolescents

Means and Standard Deviations of Mean Attachment Strength to Target According to Cohort at Wave 1 and Wave 2

	Mot	her	Fat	her	Frie	end
Target	М	SD	М	SD	М	SD
Early Adolesco	ents (<i>n</i> = 53	3)				
Wave 1	1.96	.86	.96	.75	1.30	.91
Wave 2	1.72	.96	.78	.79	1.54	.83
Late Adolesce	ents (<i>n</i> = 10	3)				
Wave 1	.98	.92	.31	.53	1.89	.89
Wave 2	1.01	.96	.29	.49	1.69	.94
* <i>p</i> < .05.						

Results: Late Adolescents with Romantic Partners

Means and Standard Deviations of Mean Attachment Strength to Targets for Late Adolescents with Romantic Partners at Wave 1 and/or Wave 2

Taraat —	Mother		Father		Frie	Friend		Romantic Partner	
Target	М	SD	М	SD	М	SD	М	SD	
All adoles	cents wit	h Roman	tic Partnei	rs (n = 52)				
Wave 1	.84	.81	.30	.57	, 1.81		1.23	1.30	
Wave 2	.90	.84	.22	.41			2.33	.81	
Adolescer	nts with S	ame Ron	nantic Par	tner (<i>n</i> =	30)				
Wave 1	.72	.82	.20	.44			1.74	1.27	
Wave 2	.93	.88	.21	.45			2.49	.69	
Adolescer	nts with D	Different R	Romantic F	Partner (<i>n</i>	= 22)				
Wave 1	1.00	.80	.45	.69	1.91	.94	.53	.98	
Wave 2	.84	.81	.23	.37	1.55	.76	2.11	.91	
*n < 05									

Results: Normative Change

Criteria for Categorization for Changes in Attachment Relationships

Group	Definition for Categorization	N (%)	Early	Late
Normative/ Stable	(=/ \uparrow FrAF or =/ \uparrow BgfAF, and \downarrow MoAF) or (\uparrow FrAF or \uparrow BgfAF, and = MoAF) or (=FrAF or =BgfAF, and =MoAf) or (\uparrow FrAF or \uparrow BgfAF, and \uparrow MoAF)	90 (57.7)	30 (56.6)	60 (58.3)
Contracted	(↓FrAF or ↓BgfAF, and =/↑MoAF) or (=FrAF or = BgfAF, and ↑MoAF) or (↓FrAF or ↓BgfAF, and ↓MoAF)	66 (42.3)	23 (43.4)	43 (41.7)

Chi-square analyses revealed no significant differences in proportion of

- early and late adolescents, ($\chi^2(1)$ = .001, p < .98)

- male and female adolescents , (χ^2 (1) = 1.81, p = .18)

Results: Psychological Health Comparison Over Time

Means and Standard Deviations of the Adjustment Variables for All Adolescents Over Time

	Depression		Self-esteem		Stress		School Attitude	
	(<i>N</i> = 156)		(<i>N</i> = 156)		(<i>N</i> = 156)		(<i>n</i> = 132)	
	М	SD	М	SD	М	SD	М	SD
Wave 1	18.63	6.21	50.35	11.86	45.63	11.59	29.17	3.78
Wave 2	18.72	6.02	50.78	10.46	45.53	10.81	29.05	4.01

Results: Depression at Wave 2

Summary of Hierarchical Regression Analyses for Variables Predicting Depression Over 12 Months

	В	SEB	β	R ²	R ² Change
Step 3					
Age	.68	.20	.25**		
Sex	-2.73	1.13			
Attachment Change	1.31	.89	.11		
Anxiety	.23	.07	.29**		
Avoidance	.06	.07	.07	.21***	.11***
Step 4					
Depression W1	.35	.09	.36***	.29***	.07***

* *p* < .05. * *p* < .01. *** *p* < .001.

Results: Self-esteem at Wave 2

Summary of Hierarchical Regression Analyses for Variables Predicting Selfesteem Over 12 Months

	R	SER	R	P 2	R2Change
	D	SLD	ρ	<i>I</i> \-	N-Change
Step 3					
Age	91	.32			
Sex	5.46	1.82	.20**		
Attachment Change	41	1.43	02		
Anxiety	51	.11			
Avoidance	29	.11		.33***	.24***
Step 4					
Self-esteem W1	.53	.07	.60***	.50***	.18***

* *p* < .05. * *p* < .01. *** *p* < .001.

Results: Stress at Wave 2

Summary of Hierarchical Regression Analyses for Variables Predicting Stress Over 12 Months

	В	SEB	β	R^2	R ² Change
Step 3					
Age	.58	.36	.12		
Sex	-8.19	2.05			
Attachment Change	1.82	1.61	.08		
Anxiety	.48	.12	.33***		
Avoidance	05	.13	03	.20	.10***
Step 4					
Sex	-5.23	1.92			
Stress W1	.42	.07	.45***	.35	.15***

** *p* < .01. *** *p* < .001.

Results: School Attitude at Wave 2

Summary of Hierarchical Regression Analyses for Variables Predicting School Attitude Over 12 Months

	В	SEB	β	R^2	R ² Change
Step 3					
Age	.17	.15	.09		
Sex	45	.84	04		
Attachment Change	1.29	.66	.16		
Anxiety	11	.05			
Avoidance	13	.05		.18***	.15***
Step 4					
Age	.31	.13	.17*		
Attachment Change	1.29	.57	.16*		
School Attitude W1	.61	.09	.56***	.40***	.22***

* *p* < .05. *** *p* < .001.

Discussion

- Longitudinal sequence of attachment reorganization partially supported
- Age-related trends at level of specific attachment figures
- Attachment to romantic partners from friends and not parents
- Attachment relationships in a "state of flux" (FriedImeier & Granqvist, 2006)
- Minimal impact on adolescent psychological health with one exception – School Attitudes
- \uparrow Age, \uparrow Attachment Change, \uparrow School Attitudes = $\uparrow\uparrow$ School Attitudes
- Attachment processes more consequential for some domains of psychological adjustment (Cooper et al., 2004)
- Accords with Nomaguchi (2008)

Discussion

- Individual differences in attachment expectancies more predictive of adolescent psychological health
- Anxiety the better predictor of psychological health
- Predisposition to the negative self-schemas that precipitate beliefs and cognitions seen in psychopathology (Wilkinson, 2006)
- Individuals behave in ways consistent with predominant attachment expectancies in times of transition (Scharfe, 2007)

Limitations of modified ANQ

- Reliance on cognitive accessibility (Freeman & Brown, 2001)
- Alternative motivations for functions, i.e., Proximity-seeking, Separation Protest (Kerns, Tomich, & Kim, 2006)
- Functions not systematically assessed (Kobak, Rosenthal, Zajac, & Madsen, 2007)
- Contexts do not necessarily represent threats to attachment system (Rosenthal & Kobak, 2010)
- => Identification of attachment markers exclusive to adolescence

Limitations and Future Directions

- Longitudinal study only a period of 12 months
- Between 5 to 10 years necessary to demonstrate the process of attachment reorganization
- Psychopathology suggested to adopt a developmental progression over adolescence

• Issues of attrition

- Retainment of larger samples of adolescents, particularly males and early adolescents in romantic relationships
- Reliance on only one measure of normative adolescent attachment
- To use other forms of measurement such as cognitive experiments or naturalistic observations

Thinking and Talking about Adolescent Relationships

- Parents are likely to remain primary attachment figures even in late adolescence
- Experimentation with peers
- Identification of attachment markers exclusive to adolescence
- Evolution of attachment relationships have minimal impact on adolescent psychological wellbeing

The End

- Thank You very much
- Any questions or suggestions?
- Come visit the RAPH Lab @ the Research School of Psychology: <u>http://psychology.anu.edu.au/RAPH_Lab/</u>