

Positive Facial Expressions in Marriage: Genuine and Non-Genuine Smiles as Predictors of Marital Satisfaction

Katherine K. Bae Northwestern University

BACKGROUND

- Marital emotional functioning is an important predictor of marital satisfaction [1]
- Positive emotions play an important role in social relationships [2], but few studies have examined positive emotions in marriage

The Present Study

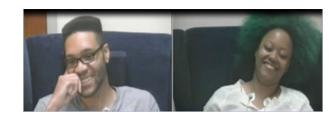
- Examined an aspect of positive marital emotional functioning via displays of positive facial expressions (i.e., genuine and nongenuine smiles) during marital interactions and their associations with marital satisfaction
- Hypothesized positive association between genuine (but not non-genuine) smiles and marital satisfaction

METHOD

Participants

- N = 66 married spouses from Chicago area from highly diverse backgrounds
- Age: M = 42.77, SD = 9.3
- Household income: M = \$72.5K, SD = \$< \$27.5K, range: < 20K to >150K (n=6)
- Education (in years): *M*=15.08, *SD*=2.79





Measures and Procedure

- **Smiles** were measured as spouses engaged in unrehearsed 10-minute conversations about (1) a pleasant topic (i.e., positive conversation) and (2) a topic of disagreement (i.e., conflict conversation) (in counterbalanced order)
- Amusement experience was measured after each conversation using an emotion checklist (i.e., 0 = no amusement at all; 8 = strongest amusement ever felt)
- Marital satisfaction was measured using the Marital Adjustment Test (i.e., 15 items, $\alpha = .8$; e.g., "To what extent do you and your mate agree or disagree on demonstration of affection?")

Genuine and Non-Genuine Smiles Coding



Action Unit 6: Cheek Raiser



Action Unit 12: Lip Corner Puller

- Two trained coders objectively coded genuine and non-genuine smiles based on the Facial Action Coding System (κ = .93-1) on a second-by-second basis for the first 3-minutes of each conversation.
- Genuine smile was defined as contraction of (1) action unit (AU) 6 (i.e., cheek raiser) and (2) AU 12 (i.e., lip corner raise).
- Non-genuine smile was defined as contraction of only AU 12
- To take into account that smiles were coded during a conversation, we included two covariate codes: (1) talking and (2) laughing.

RESULTS

Preliminary Analyses

	1.	2.	3.	4.	5.
1. Genuine smiles: Conflict conversation	-	.50***	.27*	.16	.36**
2. Non-Genuine smiles: Conflict conversation		-	.57***	.51***	06
3. Genuine smiles: Positive conversation			-	.44***	.29*
4. Non-genuine smiles: Positive conversation				-	.36**

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

Pesults indicated no significant correlations (rs < 1.101, ps < .05) between smiles (genuine and non-genuine) and marital satisfaction, regardless of conversation context. Results held controlling for talking and laughing.

Exploratory Analyses

Conflic

Amusement experience

	Conversation Genuine smiles		.36**		
		Non-Genuine smiles	06		
_					
_					
	Docitivo		Amusement experience		
	Positive Conversation	Genuine smiles	Amusement experience .29*		

DISCUSSION

- Findings do not support link between smiles during marital conversations and marital satisfaction
- Exploratory analyses support positive link between smiles (in particular genuine smiles) and positive emotional experiences during marital conversations
- Study has limitations, which suggest directions for future research, including increasing sample size to afford sufficient statistical power to detect mediumsized effects; expanding smiles coding to capture >2 action units for >3 minutes; and accounting for statistical interdependence between spouses
- Findings guide us in continuing to examine how positive emotional expressions fit into the larger body of positive emotion research

ACKNOWLEDGMENTS

- We would like to thank the members of the Life-Span Development Lab at Northwestern University for their work on the project and the Office of Undergraduate Research and the Department of Psychology at Northwestern University for their financial support through their Summer Research Grant awarded to Katherine Bae.
- I would like to thank my advisor, Dr. Claudia Haase, for her support and guidance in this project.

REFERENCES

[1] Levenson, R. W., & Gottman, J. M. (1985). Physiological and affective predictors of change in relationship satisfaction. *Journal of Personality and Social Psychology*, *49*(1), 85–94. https://doi.org/10.1037/0022-3514.49.1.85 [2] Fredrickson, B. L. (2001). The role of positive emotions in positive psychology: The broaden-and-build theory of positive emotions. *American Psychologist*, *56*(3), 218–226. https://doi.org/10.1037/0003-066X.56.3.218