If Love Is the Treasure, Laughter is the Key: Shared Laughter, Attachment, and Closeness

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# Shared Laughter & Intimacy

Previous studies suggest shared laughter to be an indicator of **relationship well-being** (Kurtz et al., 2015; Kurtz & Algoe, 2017)

- Shared laughter is more likely to occur in **closer** than distant relationships (Smoski & Bachorowski, 2003)
- Humor in relationships promote "disclosure and responsiveness" (Fraley and Aron, 2004), which are essential for intimacy (Reis & Shaver, 1988)





# The Importance of Considering Attachment

- Shared laughter impacts recipients to varying degrees, suggesting its moderation by individual characteristics. (Howland and Simpson, 2013)
- Anxiously attached individuals require more time, affection, and self-disclosure to perceive closeness in their romantic partnerships. (Hudson and Fraley, 2017)



# **Study Aims & Hypotheses**

- On days when individuals report more shared laughter than their own average (within-person effect), they will report more closeness.
- 2) Individuals higher in attachment anxiety will report less closeness.
- Individuals higher in anxious attachment will show weaker relations between shared laughter and closeness.



### Methods & Measures

- Recruitment took place during COVID-19 from Aug 2020 to April 2021
- **108 cohabiting romantic couples** in NYC/NJ area were included in the analysis
- Couples completed a **baseline survey** 
  - General Anxious Attachment measured with The Experiences in
    Close Relationship Scale (Wei et al., 2007)
- and a 14-day dyadic daily diary
  - Assessed daily amount of shared laughter (Shrout et al., 2018)
  - Assessed daily reports of physical and emotional

closeness/intimacy (Shrout et al., 2018)



# Analytic Plan

- We ran two dyadic multilevel model in R using brms to simultaneously model women's and men's associations between shared laughter and reports of (1) daily emotional intimacy and (2) daily physical intimacy
  - Predictors: time, within-subjects shared laughter,
    between-subjects shared laughter, between-subjects attachment
    anxiety, within-subjects shared laughter x attachment anxiety
- Random intercepts & slopes of time and shared laughter were estimated to explore **heterogeneity** of effects



# **Hypothesis 1: Main effect of Closeness**

On days when individuals report more shared laughter than their own average, they will report more closeness.









# **Emotional Intimacy**

### Female

#### Male



Intercept = 7.38 (CI = 7.15, 7.62)  $\beta$  = 0.48 (CI = 0.40, 0.56) Intercept = 7.08 (CI = 6.69, 7.46)  $\beta$  = 0.37 (CI = 0.29, 0.45)

# **Physical Intimacy**

#### Female

#### Male



Intercept = 5.67 (CI = 5.27, 6.07) β = 0.48 (CI = 0.40, 0.56) Intercept = 5.64 (Cl = 5.27, 6.02) β = 0.39 (Cl = 0.31, 0.47)

# **Hypothesis 2:** Main Effect of Anxious Attachment

Individuals who score higher on attachment anxiety will report less relationship closeness.

- Females (but not males) higher in attachment anxiety reported significantly less emotional intimacy (β = -0.1457, CI = -0.2519, -0.0376)
- There was no significant relationship between attachment anxiety and physical intimacy for males or females

# Hypothesis 3: Anxious Attachment & Shared Laughter Interaction

Individuals higher in anxious attachment will show weaker relationships between shared laughter and closeness (e.g. they will not get the same benefits of shared laughter)

 There was no significant interaction for males or females for either emotional or physical intimacy (estimates near 0 for all interaction effects)



# **Discussion & Implications**

- On days when male and female partners experience more shared laughter than they normally do, they report concurrent increases in emotional AND physical intimacy in their relationships
- Shared laughter may be a critical component to enhancing relationship quality and may be explored as a therapeutic tool for couples struggling with intimacy



# **Limitations & Future Directions**

- Examine and quantify the **heterogeneity** in the findings more closely
- Excluded **18 non-heterosexual couples** from analyses
- Attachment anxiety was assessed generally (not relationship specific attachment)







# **Results: Emotional Intimacy**

Emotional Intimacy				
Variable	Estimate	Est. Error	L-95% CI	U-95% CI
Female Partners				
Intercept	7.3827	0.1215	7.1482	7.6231
Time	-0.0127	0.0164	-0.0448	0.0196
Shared laughter (w)	0.4817	0.0391	0.4031	0.5555
Shared laughter (b)	0.6122	0.0674	0.4820	0.7466
Anxious attachment (b)	-0.1457	0.0549	-0.2519	-0.0376
Shared laughter (w) x Anxious attachment	0.0154	0.0161	-0.0158	0.0471
Male Partners				
Intercept	7.0763	0.1965	6.6900	7.4602
Time	0.0337	0.0195	-0.0043	0.0722
Shared laughter (w)	0.3690	0.0415	0.2869	0.4499
Shared laughter (b)	0.4068	0.0972	0.2149	0.5979
Anxious attachment (b)	-0.1325	0.1059	-0.3410	0.0733
Shared laughter (w) x Anxious attachment	-0.0103	0.0216	-0.0534	0.0321



# **Results:** Physical Intimacy

Physical Intimacy				
Variable	Estimate	Est. Error	L-95% CI	U-95% CI
Female Partners				
Intercept	5.6692	0.2029	5.2660	6.0681
Time	0.0362	0.0222	-0.0077	0.0802
Shared laughter (w)	0.4818	0.0398	0.4031	0.5584
Shared laughter (b)	0.4580	0.0984	0.2682	0.6535
Anxious attachment (b)	-0.0811	0.0715	-0.2230	0.0599
Shared laughter (w) x Anxious attachment	-0.0036	0.0157	-0.0345	0.0277
Male Partners				
Intercept	5.6449	0.1910	5.2680	6.0168
Time	0.0267	0.0207	-0.0135	0.0678
Shared laughter (w)	0.3898	0.0402	0.3103	0.4684
Shared laughter (b)	0.6080	0.0832	0.4456	0.7700
Anxious attachment (b)	-0.0707	0.0811	-0.2309	0.0911
Shared laughter (w) x Anxious attachment	-0.0187	0.0199	-0.0572	0.0209