

Is “Stressed” Really “Desserts” Spelled Backwards?

How More Objective Assessment of Eating Behavior Can Refine Our
Understanding of Stress Eating

Kristin N Javaras, DPhil, PhD

May 2025

Disclosures

- In the past three years, Dr. Javaras has held shares in Centene Corporation and Sanofi and served on the Clinical Advisory Board for Beanbag Health.
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With Gratitude

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The Big Picture: Stress & Health



Stress & Health

Amount and Types of Stress

In 2023, about one-quarter of Americans reported that their average stress over the past month was extreme (8-10 out of 10).

The top types of stress were health- and finance-related stress.

Stress in America 2023

A nation recovering from collective trauma



The COVID-19 pandemic, global conflicts, racism and racial injustice, inflation, and climate-related disasters are all weighing on the collective consciousness of Americans

Sources

- Stress in America™ (2023); URL: <https://www.apa.org/news/press/releases/stress/2023/collective-trauma-recovery>

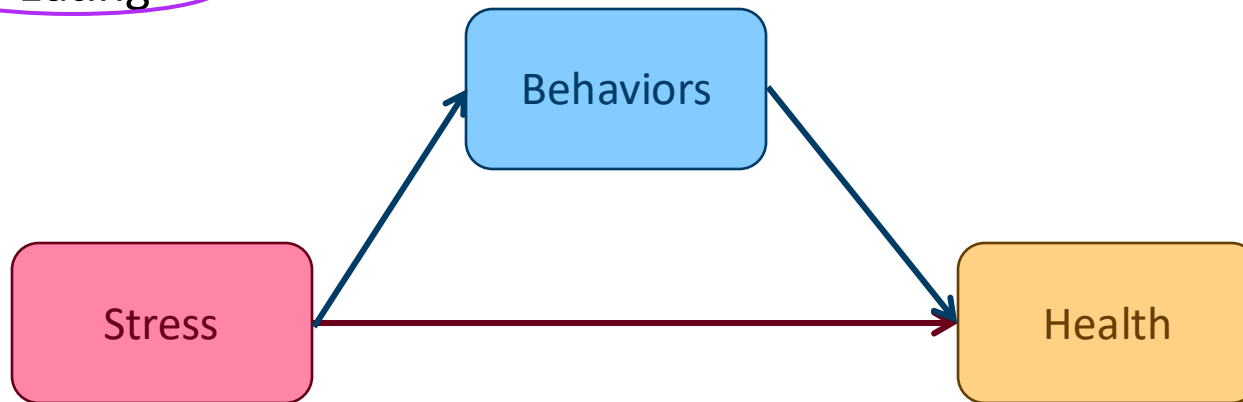


Stress & Health

The relationship between stress and health is complex, with stress-related changes in behavior one part of the picture.

Examples of behaviors include . . .

- Use of tobacco, alcohol, and other drugs
- Sleep
- Physical activity
- Eating



Annual Review of Psychology

Stress and Health: A Review of Psychobiological Processes

Daryl B. O'Connor,¹ Julian F. Thayer,²
and Kavita Vedhara³

Annu. Rev. Psychol. 2021. 72:663–88

Sources

- O'Connor *et al* (2021); DOI: 10.1146/annurev-psych-062520122331



Stress-Related Eating: An Overview

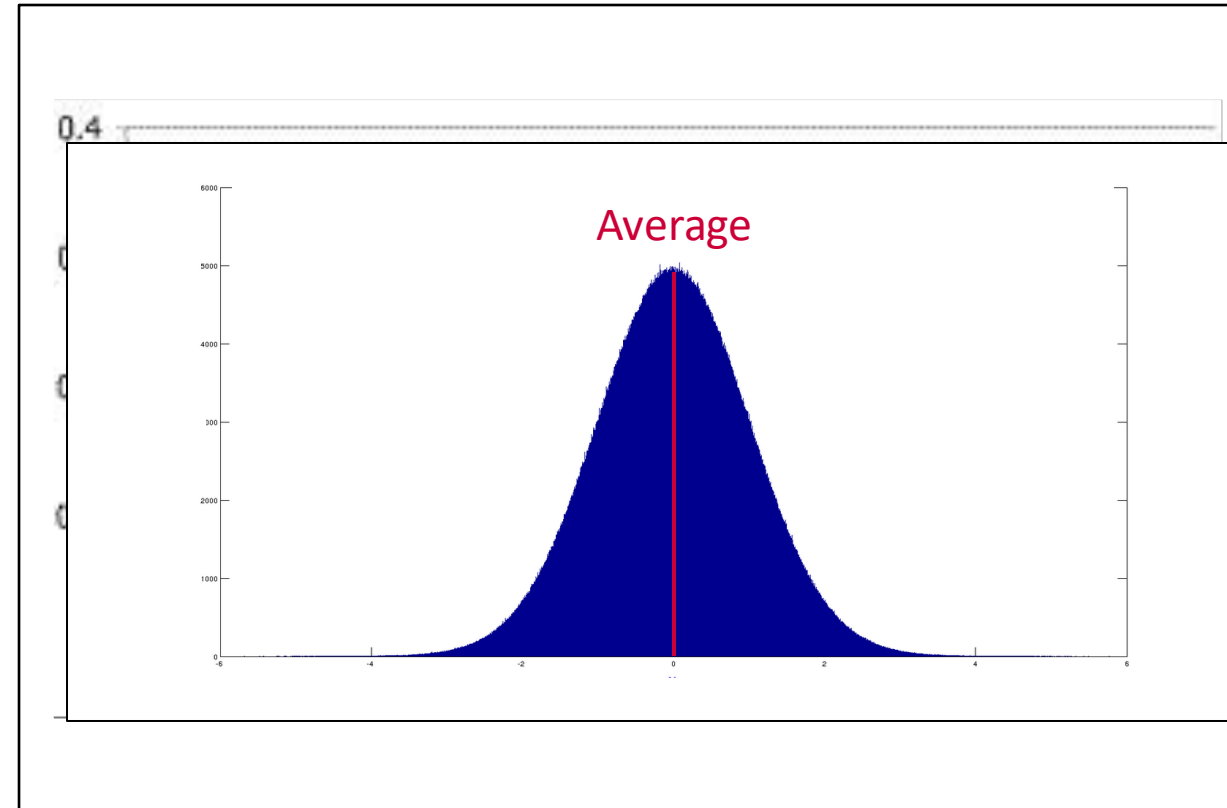


Overview of Stress-Related Eating

A Brief Statistical Digression

Many research methods and findings focus on the average, often the mean.

But the average may not be that informative when there are two (or more) different phenomena occurring.



Overview of Stress-Related Eating

Strong cultural messages that stress is associated with eating more, especially more comfort food

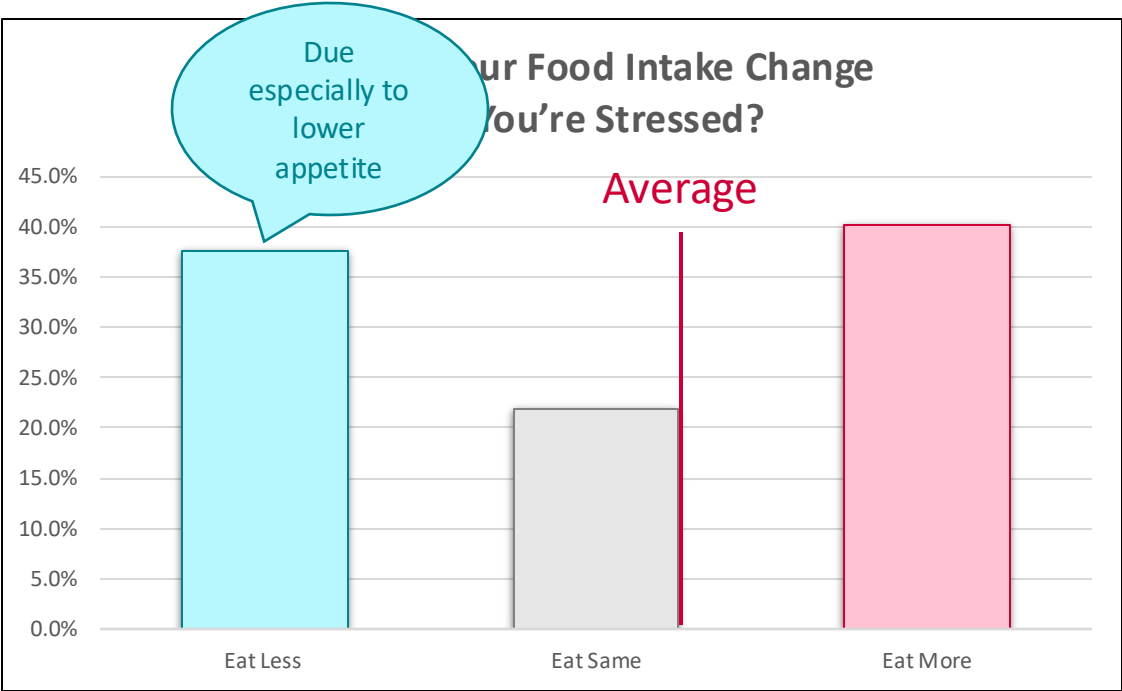
I. Eating more = 'food intake'

II. Eating more comfort food = 'food choice'



Overview of Stress-Related Eating

Stress' Impact on Food Intake



RELEASED FEBRUARY 11, 2014

Stress in America™

Are Teens Adopting Adults' Stress Habits?

Click on the icons to read a section of the report or [click here to access the full report](#)

zzz
STRESS AND sleep

STRESS AND exercise

STRESS AND eating

Sources

- Epel *et al* (2004); DOI: 10.1196/annals.1314.022
- Wallis & Hetherington (2009); DOI: 10.1016/j.appet.2008.11.007
- Oliver & Wardle (1999); DOI: 10.1016/S0031-9384(98)00322-9
- Stress in America™ (2014); URL: <https://www.apa.org/news/press/releases/stress/2013/stress-report.pdf>



Overview of Stress-Related Eating

Associations with Metabolic Health

Reporting increased food intake and/or more comfort food choice was associated with . . .

- Increased odds of prediabetes and diabetes
- Higher levels of glucose, insulin, insulin resistance, and HbA_{1c} among those without diabetes

Appetite 69 (2013) 151–155

Contents lists available at SciVerse ScienceDirect

 **Appetite**
journal homepage: www.elsevier.com/locate/appet

Research report

Stress eating and health. Findings from MIDUS, a national study of US adults [☆]

Vera Tsenkova*, Jenifer Morozink Boylan, Carol Ryff

Institute on Aging, University of Wisconsin–Madison, 1300 University Ave., 2245 MSC, Madison, WI 53706, United States

ARTICLE INFO

Article history:
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Diabetes
Obesity
National study

ABSTRACT

The epidemic of obesity and its related chronic diseases has provoked interest in the predictors of eating behavior. Eating in response to stress has been extensively examined, but currently unclear is whether stress eating is associated with obesity and morbidity. We tested whether self-reported stress eating was associated with worse glucose metabolism among nondiabetic adults as well as with increased odds of prediabetes and diabetes. Further, we investigated whether these relationships were mediated by central fat distribution. Participants were 1138 adults (937 without diabetes) in the Midlife in the US study (MIDUS II). Glucose metabolism was characterized by fasting glucose, insulin, insulin resistance (HOMA-IR), glycosylated hemoglobin (HbA_{1c}), prediabetes, and diabetes status. Multivariate-adjusted analyses showed that stress eating was associated with significantly higher nondiabetic levels of glucose, insulin, insulin resistance, and HbA_{1c} as well as higher odds of prediabetes or diabetes. Relationships between stress eating and all outcomes were no longer statistically significant once waist circumference was added to the models, suggesting that it mediates such relationships. Findings add to the growing literature on the relationships among psychosocial factors, obesity, and chronic disease by documenting associations between stress eating and objectively measured health outcomes in a national sample of adults. The findings have important implications for interventional targets related to obesity and chronic disease, namely, strategies to modify the tendency to use food as a coping response to stress.

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Sources

- Tsenkova *et al* (2013); DOI: 10.1016/j.appet.2013.05.020

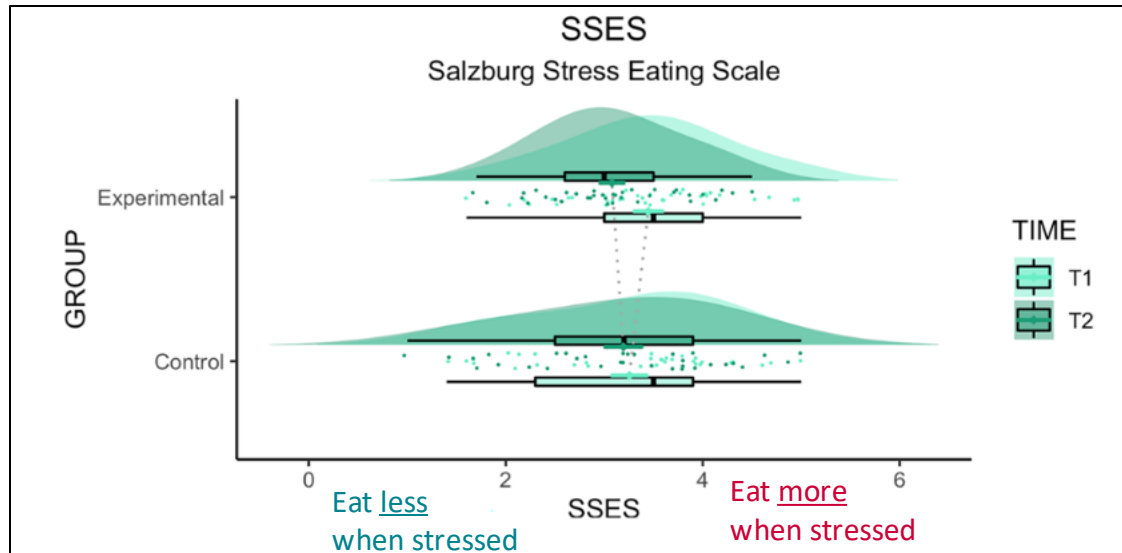


Overview of Stress-Related Eating

Interventions

Mindfulness meditation intervention may lead to . . .

- (Small) decrease in stress-related food intake



Sources

- Torske *et al* (2024); DOI: 10.1038/s41598-024-57687-7



scientific reports

OPEN Mindfulness meditation modulates stress-eating and its neural correlates

Alyssa Torske^{1,2,3,4}✉, Benno Bremer^{1,2,4}, Britta Karen Hölzel^{1,2}, Alexander Maczka^{1,2} & Kathrin Koch^{1,2,3}

Stress-Related Eating: An Overview



Stress-Related Eating: An Overview Based on Self-Report

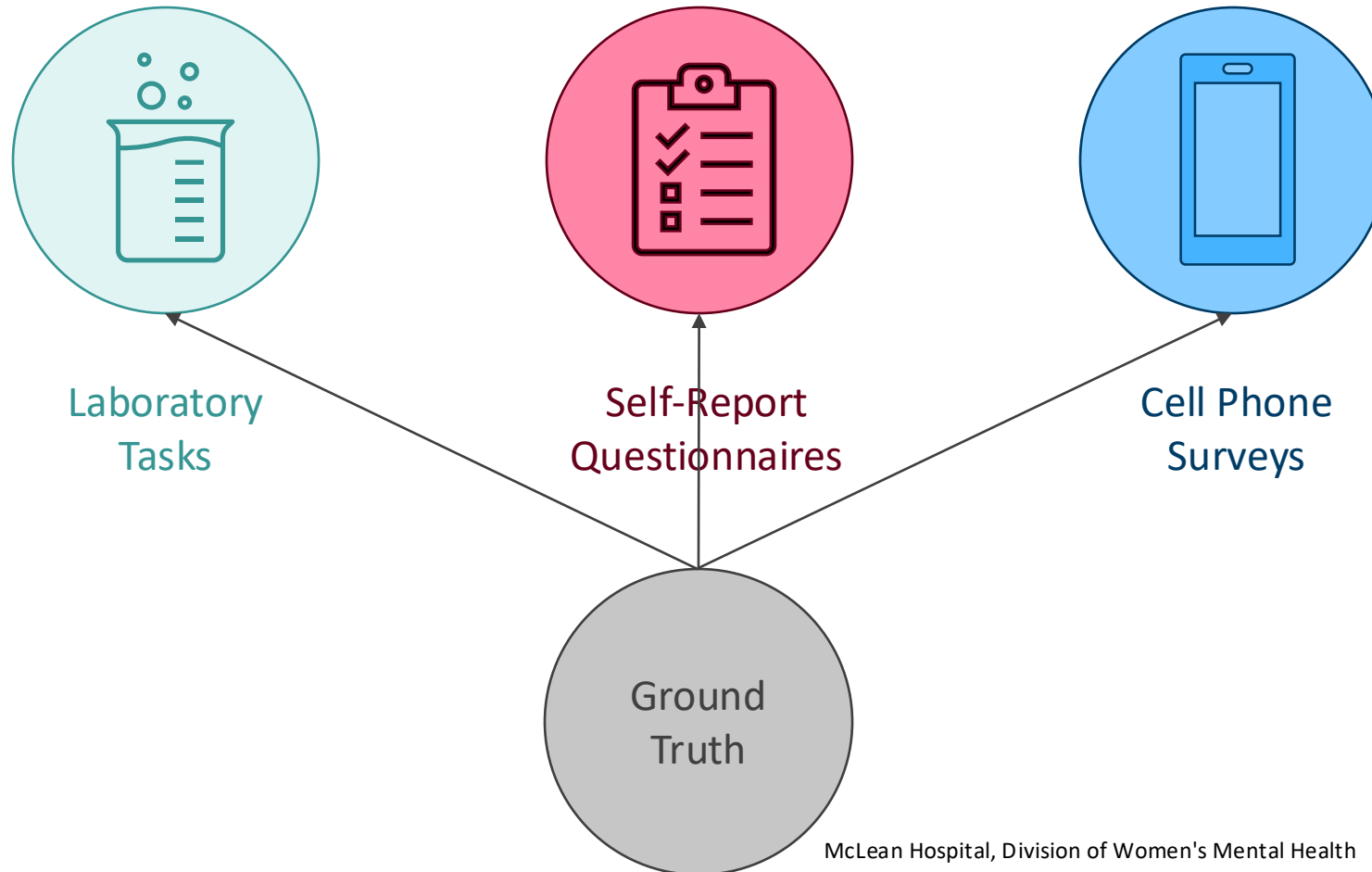


Stress-Related Eating: Measuring It



Measuring Stress-Related Eating

Three Approaches to Measurement

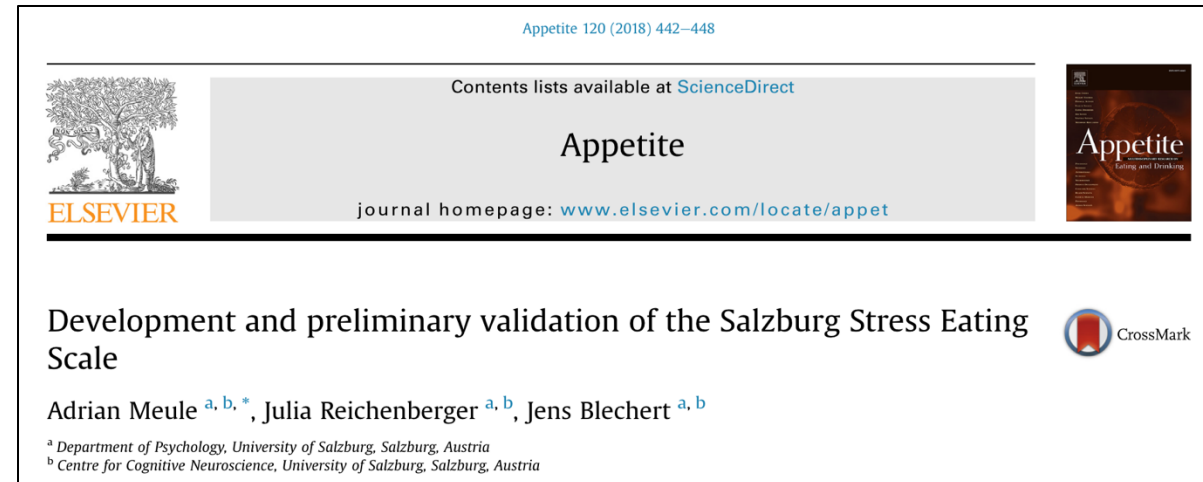


Measuring Stress-Related Eating

Self-Report Questionnaires

Measures of stress-related food intake include

- One or two 'direct' questions asking how stress affects food intake Tsenkova *et al* (2013); Wallis & Hetherington (2009); Epel *et al* (2004); Oliver & Wardle (1999)
- Salzburg Stress Eating Scale Meule *et al* (2018)



Sources

- MIDUS 2 Using Food to Cope (e.g., Tsenkova *et al*, 2013); URL: https://midus.wisc.edu/Projects/M2P1/M2P1_Survey/Documentation/M2_P1_DocumentationOfPsychosocialConstructsAndCompositeVariables_20201103.pdf
- Wallis & Hetherington (2009); DOI: 10.1016/j.appet.2008.11.007
- Epel *et al* (2004); DOI: 10.1196/annals.1314.022
- Oliver & Wardle (1999); DOI: 10.1016/S0031-9384(98)00322-9
- Meule *et al* (2018); DOI: 10.1016/j.appet.2017.10.003 0195-6663



Measuring Emotion-Related Eating



Self-Report of Emotion-Related Eating
e.g., Dutch Eating Behavior Questionnaire (van Strien et al., 1986)

	NEVER	RARELY	SOME-TIMES	OFTEN	VERY-OFTEN
1 Do you have the desire to eat when you are irritated?	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
2 If food tastes good to you, do you eat more than usual?	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
3 Do you have a desire to eat when you have nothing to do?	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Measuring Emotion-Related Eating

 **frontiers** | Frontiers in **Psychology**

METHODS
published: 17 May 2022
doi: 10.3389/fpsyg.2022.853555



Measuring Ostracism-Induced Changes in Consumption of Palatable Food: Feasibility of a Novel Behavioral Task

OPEN ACCESS

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¹Division of Women's Mental Health, McLean Hospital, Belmont, MA, United States, ²Department of Psychiatry, Harvard Medical School, Boston, MA, United States, ³Biological Psychiatry Laboratory, McLean Hospital, Belmont, MA, United States, ⁴Division of Alcohol, Drugs, and Addiction, McLean Hospital, Belmont, MA, United States, ⁵Cognitive and Clinical Neuroimaging Core, McLean Hospital, Belmont, MA, United States

Pilot Study of Novel Task
included 20 young adult women (40% with current or past bulimia nervosa or binge-eating disorder)

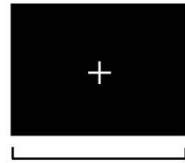


Sources

- Javaras et al (2022); DOI: 10.3389/fpsyg.2022.853555

Measuring Emotion-Related Eating

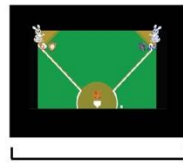
Cyberball Phase



5.0-6.0s



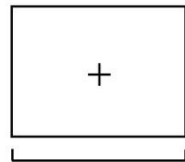
1.5s



~25.0s

Inclusion
or
Exclusion

Chocolate Image Phase

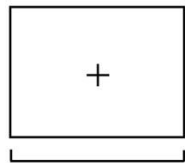


2.0s



2.0s

Milkshake Intake Phase



2.0-4.0s



2.0s



7.0s



2.5s



10.0s

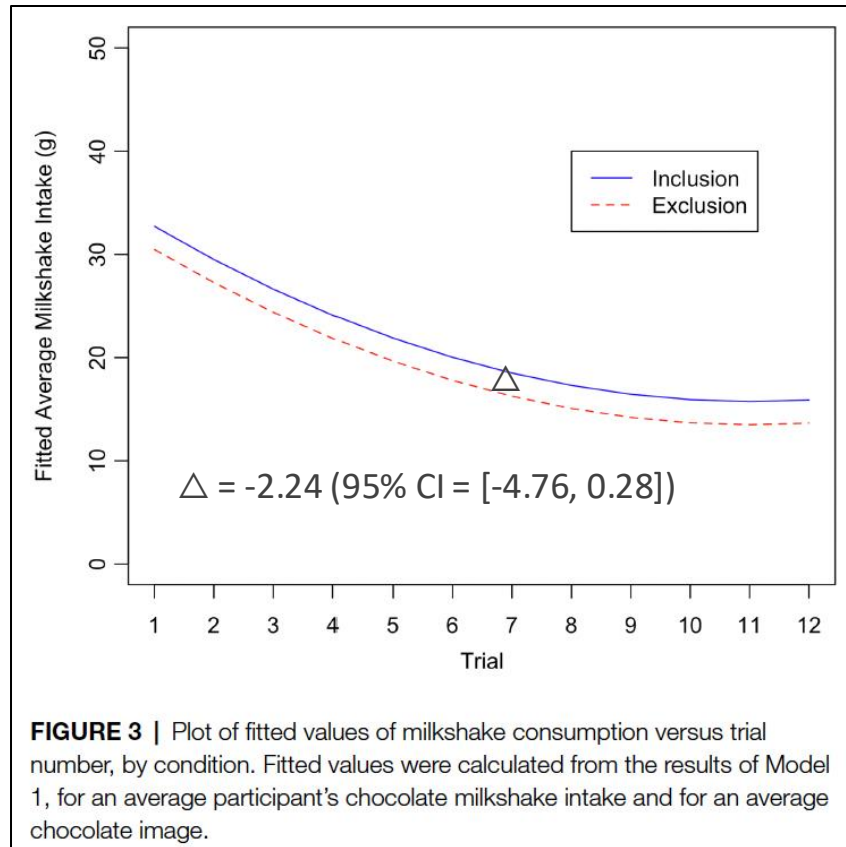
Task Design
includes 12 full trials
(6 inclusion, 6 exclusion)



Sources

- Javaras *et al* (2022); DOI: 10.3389/fpsyg.2022.853555

Measuring Emotion-Related Eating



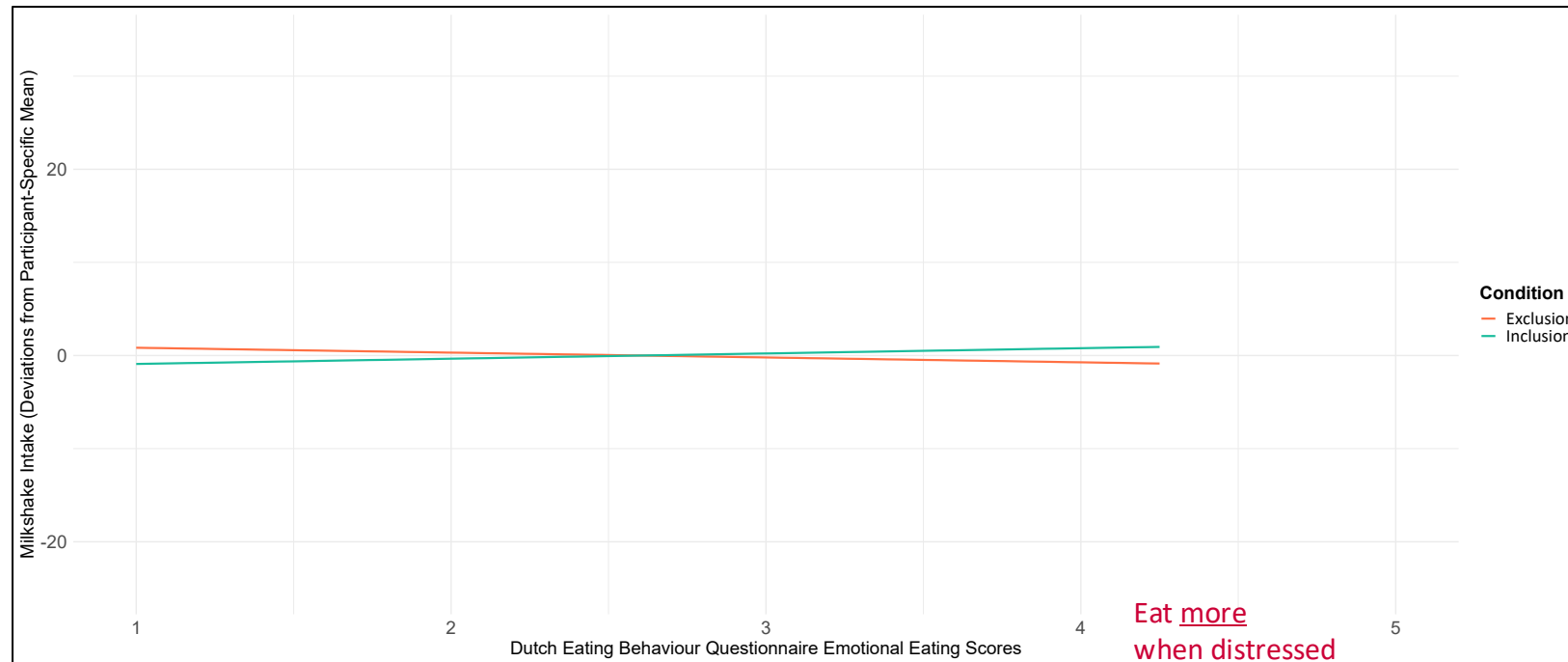
Milkshake Intake
on average decreases for later trials, but is not significantly different for exclusion (vs. inclusion)



Sources

- Javaras et al (2022); DOI: 10.3389/fpsyg.2022.853555

Measuring Emotion-Related Eating



Self-Report of Emotion-Related Eating
is not associated with changes in milkshake intake after exclusion

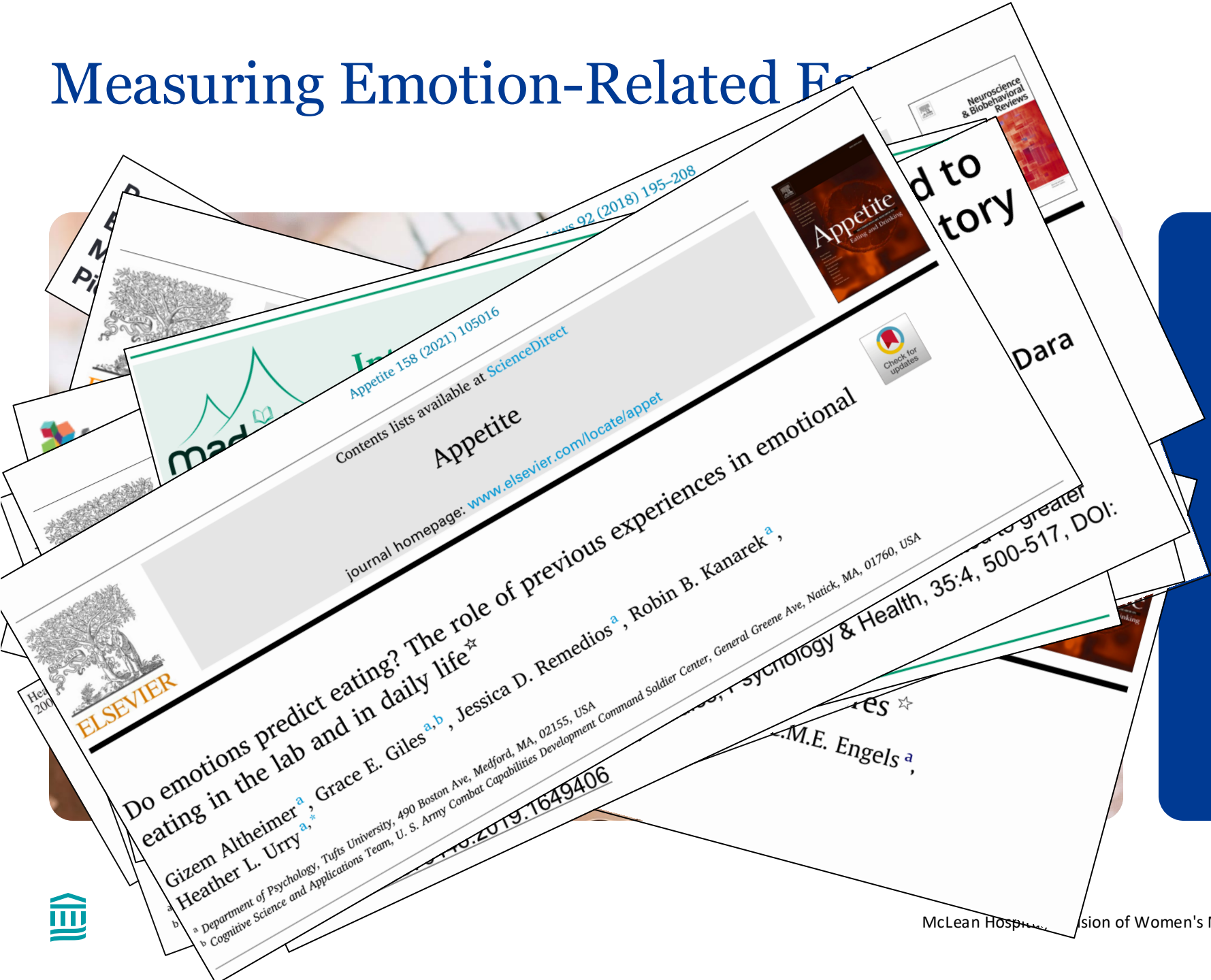
	NEVER	RARELY	SOME-TIMES	OFTEN	VERY OFTEN
1 Do you have the desire to eat when you are irritated?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2 If food tastes good to you, do you eat more than usual?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3 Do you have a desire to eat when you have nothing to do?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>



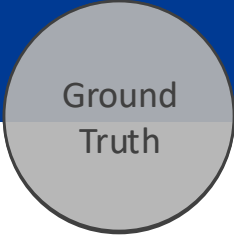
Sources

- Javaras *et al* (2022); DOI: 10.3389/fpsyg.2022.853555

Measuring Emotion-Related Eating



Self-Report of Emotion-Related Eating
A cautionary tale?



Measuring Stress-Related Eating

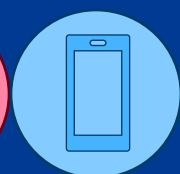
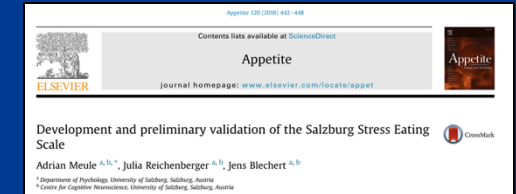
Does stress eat away at you or make you eat? EMA measures of stress predict day to day food craving and perceived food intake as a function of trait stress-eating

Julia Reichenberger , Björn Pannicke , Ann-Kathrin Arend , Katja Petrowski & Jens Blechert

To cite this article: Julia Reichenberger , Björn Pannicke , Ann-Kathrin Arend , Katja Petrowski & Jens Blechert (2021) Does stress eat away at you or make you eat? EMA measures of stress predict day to day food craving and perceived food intake as a function of trait stress-eating, Psychology & Health, 36:2, 129-147, DOI: [10.1080/08870446.2020.1781122](https://doi.org/10.1080/08870446.2020.1781122)

To link to this article: <https://doi.org/10.1080/08870446.2020.1781122>

Self-Report of Stress-Related Eating




Measuring Stress-Related Eating

Trends in Cognitive Sciences

Trends in Cognitive Sciences, April 2020, Vol. 24, No. 4

Forum

Why Are Self-Report and Behavioral Measures Weakly Correlated?

Junhua Dang ^{1,*},
Kevin M. King,² and
Michael Inzlicht^{3,4}



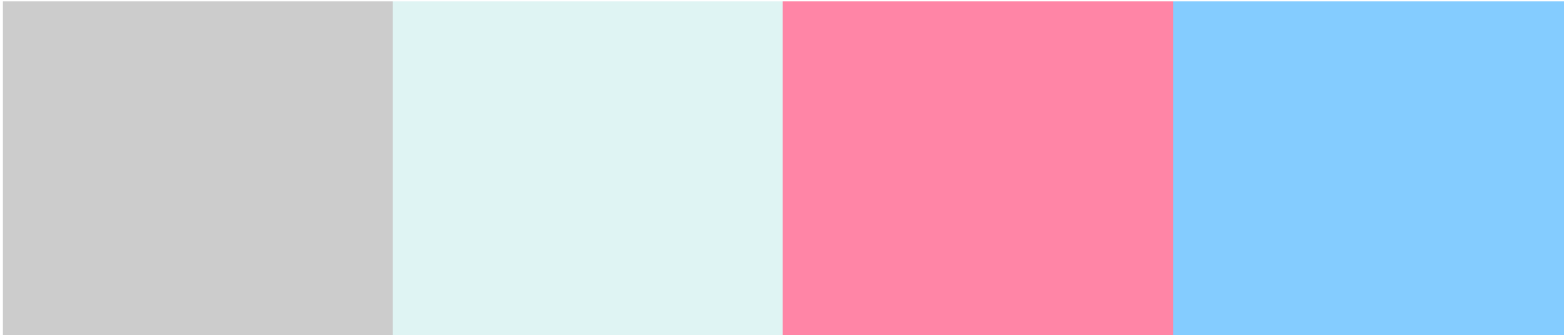
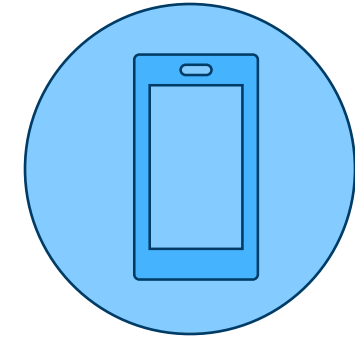
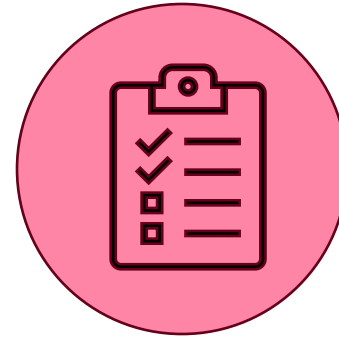
Self-Report of Behavior
is (at best) weakly
correlated with
behavioral tasks for many
behaviors

Sources

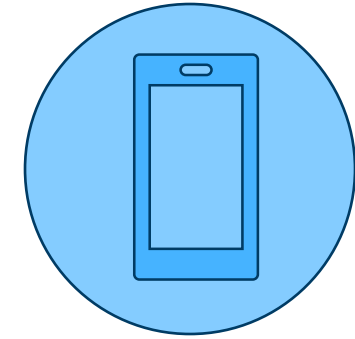
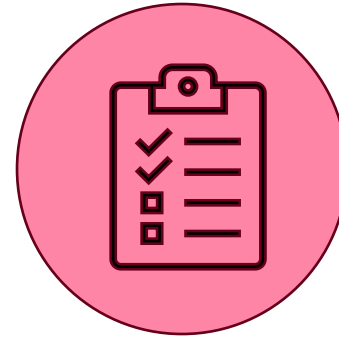
- Dang *et al* (2020); DOI: 10.1016/j.tics.2020.01.007



Measuring Stress-Related Eating



Measuring Stress-Related Eating



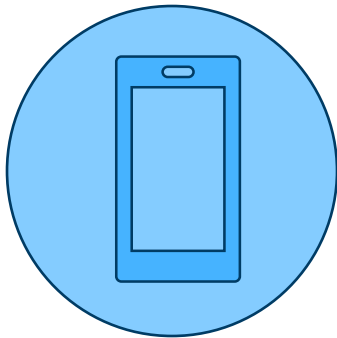
Emotion/Stress

- Laboratory induction
- Single, specified type
- Objectively selected

- Naturally occurring
- Unspecified type(s)
- Subjectively selected

- Naturally occurring
- Unspecified type(s)
- Both options

Measuring Stress-Related Eating



Emotion/Stress

- Laboratory induction
- Single, specified type
- Objectively selected

Food Intake

- In laboratory
- Immediately after
- Objectively assessed

- Naturally occurring
- Unspecified type(s)
- Subjectively selected

- Naturally occurring
- Unspecified timing
- Subjectively assessed

- Naturally occurring
- Unspecified type(s)
- Both options

- Naturally occurring
- Multiple timing options
- Subjectively assessed



Measuring Stress-Related Eating

Personality and Individual Differences 49 (2010) 565–569



Contents lists available at ScienceDirect

Personality and Individual Differences

journal homepage: www.elsevier.com/locate/paid



I ate what?! The effect of stress and dispositional eating style on food intake and behavioral awareness

Justin D. Royal^a, Jaime L. Kurtz^{b,*}

^a Center for Human Genetic Research, Massachusetts General Hospital, 185 Cambridge St., Boston, MA 02114, USA

^b Department of Psychology, James Madison University, MSC 7704 Harrisonburg, VA 22807, USA

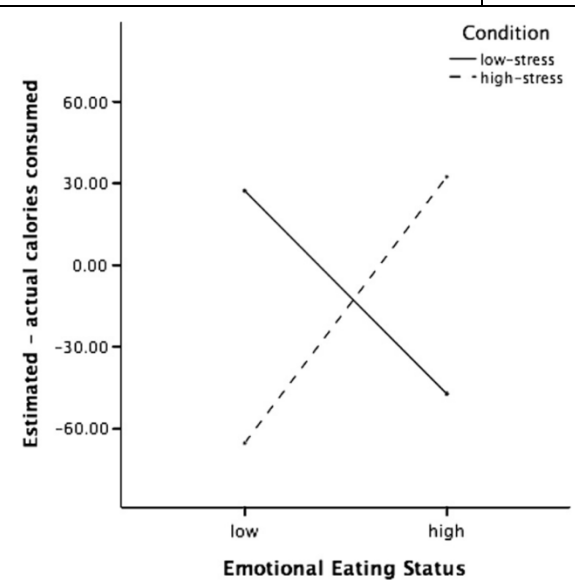


Fig. 1. Relationship between emotional eating status and experimental condition on the difference in estimated versus actual calories consumed (positive numbers indicate an overestimation).

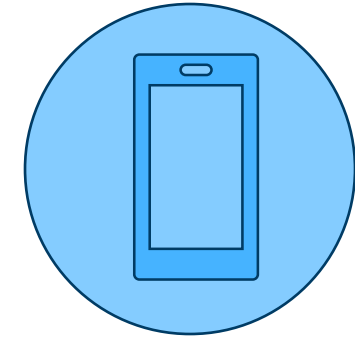
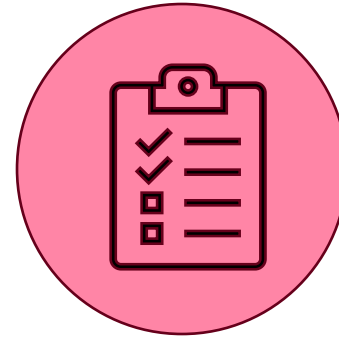
Self-Report of Emotion-Related Eating was significantly associated with overestimating one's food intake, but not with actual food intake, in the high (vs. low) stress condition

Sources

- Royal & Kurtz (2010); DOI: 10.1016/j.paid.2010.04.022



Measuring Stress-Related Eating



Emotion/Stress

- Laboratory induction
- Single, specified type
- Objectively selected

Food Intake

- In laboratory
- Immediately after
- Objectively assessed

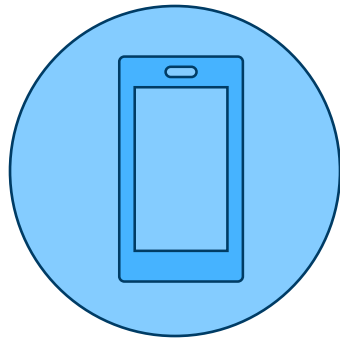
- Naturally occurring
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- Naturally occurring
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Measuring Stress-Related Eating



Emotion/Stress	<ul style="list-style-type: none"> Laboratory induction Single, specified type Objectively selected 	<ul style="list-style-type: none"> Naturally occurring Unspecified type(s) Subjectively selected 	<ul style="list-style-type: none"> Naturally occurring Unspecified type(s) Both options
Food Intake	<ul style="list-style-type: none"> In laboratory Immediately after Objectively assessed 	<ul style="list-style-type: none"> Naturally occurring Unspecified timing Subjectively assessed 	<ul style="list-style-type: none"> Naturally occurring Multiple timing options Subjectively assessed
Association	<ul style="list-style-type: none"> Objectively assessed 	<ul style="list-style-type: none"> Subjectively assessed 	<ul style="list-style-type: none"> Objectively assessed



Measuring Stress-Related Eating

Direct Approach #1

Do you eat more when you're stressed?



Measuring Stress-Related Eating

Direct Approach #2

Think of a time you were stressed in the past two weeks

Did you eat more?



Measuring Stress-Related Eating

Comparison of Direct Approaches

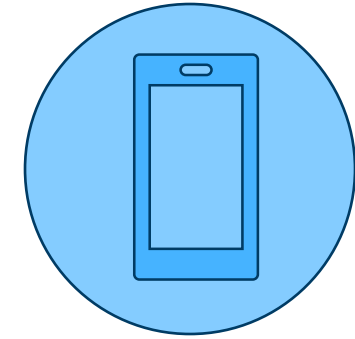
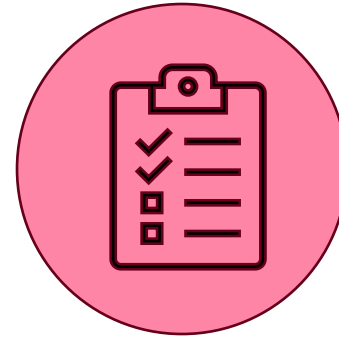
In a sample of 89 undergraduates

	Self-Reported Changes in Food Intake		
	Eat Less	Eat Same	Eat More
Approach #1 (General)	48%	9%	43%
Approach #2 (Specific Recent Stressor)	49%	18%	33%

Sources
• Wallis & Hetherington (2009); DOI: 10.1016/j.appet.2008.11.007



Measuring Stress-Related Eating



Emotion/Stress

- Laboratory induction
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- Objectively selected

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- Unspecified type(s)
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Food Intake

- In laboratory
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- Naturally occurring
- Multiple timing options
- Subjectively assessed

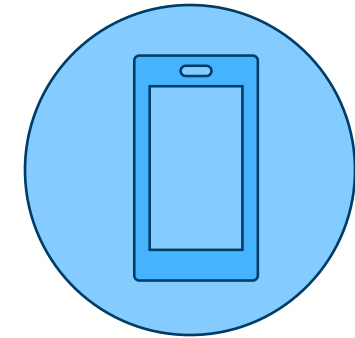
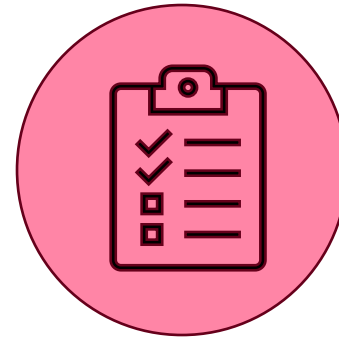
Association

- Objectively assessed

- Subjectively assessed

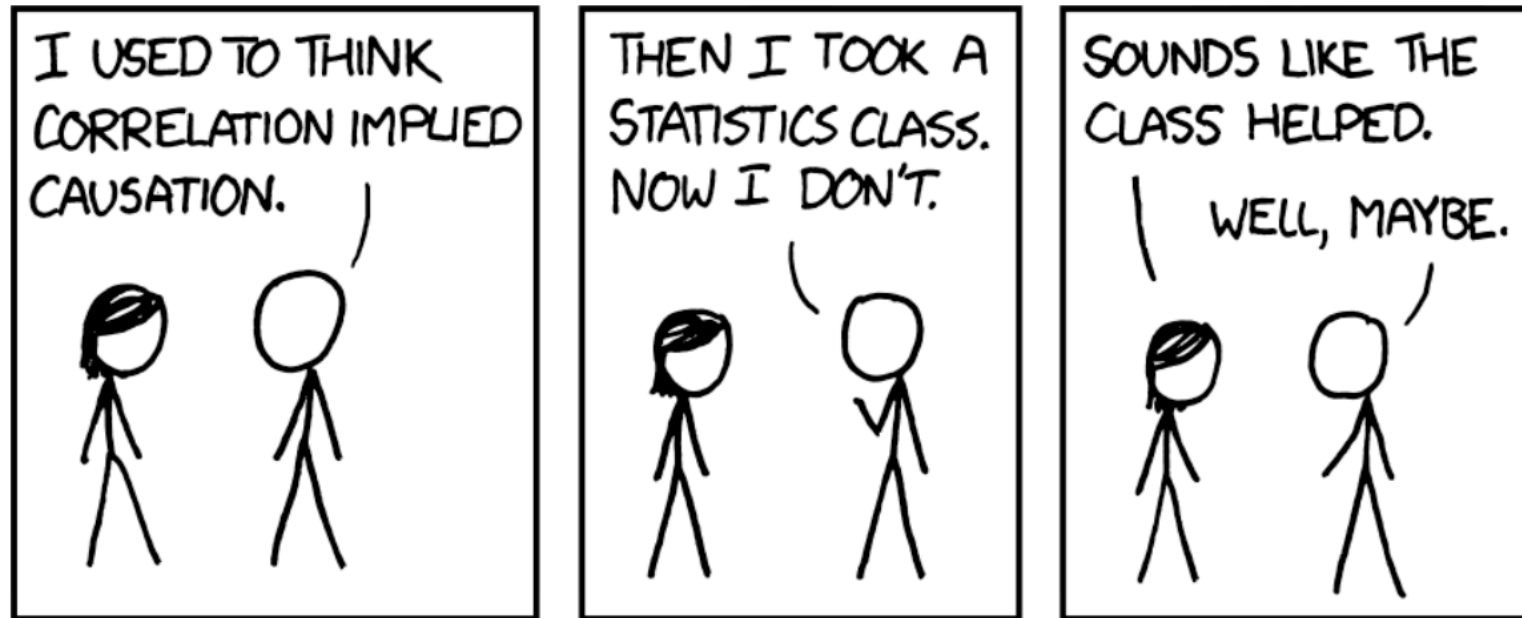
- Objectively assessed

Measuring Stress-Related Eating



Emotion/Stress	<ul style="list-style-type: none"> • Laboratory induction • Single, specified type • Objectively selected 	<ul style="list-style-type: none"> • Naturally occurring • Unspecified type(s) • Subjectively selected 	<ul style="list-style-type: none"> • Naturally occurring • Unspecified type(s) • Both options
Food Intake	<ul style="list-style-type: none"> • In laboratory • Immediately after • Objectively assessed 	<ul style="list-style-type: none"> • Naturally occurring • Unspecified timing • Subjectively assessed 	<ul style="list-style-type: none"> • Naturally occurring • Multiple timing options • Subjectively assessed
Association	<ul style="list-style-type: none"> • Objectively assessed • Causal 	<ul style="list-style-type: none"> • Subjectively assessed • Correlational 	<ul style="list-style-type: none"> • Objectively assessed • Correlational

Measuring Stress-Related Eating

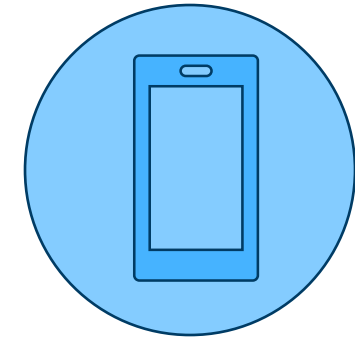
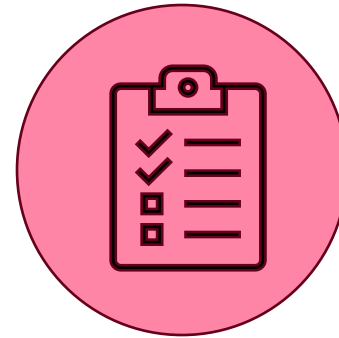


Sources

- xkcd; URL: <https://xkcd.com/552/>

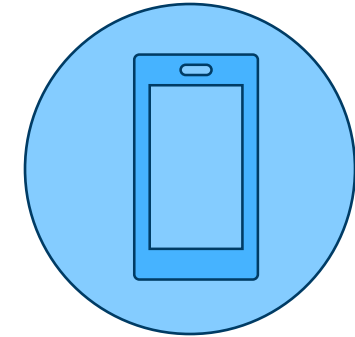
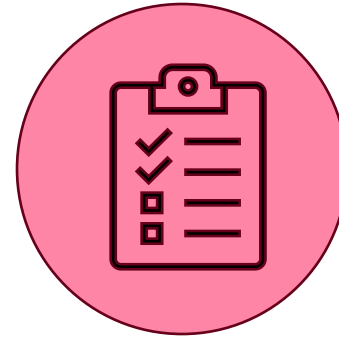


Measuring Stress-Related Eating



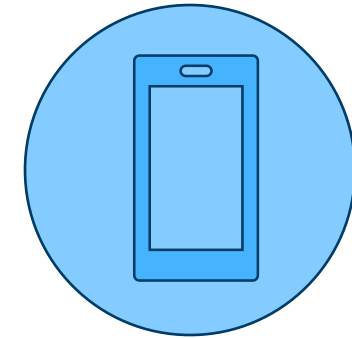
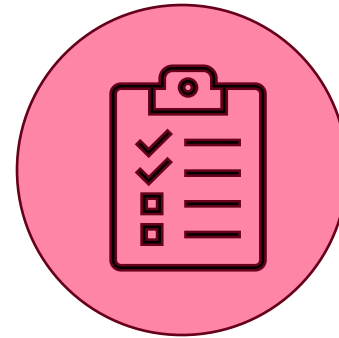
Emotion/Stress	<ul style="list-style-type: none"> • Laboratory induction • Single, specified type • Objectively selected 	<ul style="list-style-type: none"> • Naturally occurring • Unspecified type(s) • Subjectively selected 	<ul style="list-style-type: none"> • Naturally occurring • Unspecified type(s) • Both possible
Food Intake	<ul style="list-style-type: none"> • In laboratory • Immediately after • Objectively assessed 	<ul style="list-style-type: none"> • Naturally occurring • Unspecified timing • Subjectively assessed 	<ul style="list-style-type: none"> • Naturally occurring • Multiple timing options • Subjectively assessed
Association	<ul style="list-style-type: none"> • Objectively assessed • Causal 	<ul style="list-style-type: none"> • Subjectively assessed • Correlational 	<ul style="list-style-type: none"> • Objectively assessed • Correlational

Measuring Stress-Related Eating



Emotion/Stress	<ul style="list-style-type: none"> Laboratory induction Single, specified type Objectively selected 	<ul style="list-style-type: none"> Naturally occurring Unspecified type(s) Subjectively selected 	<ul style="list-style-type: none"> Naturally occurring Unspecified type(s) Both possible
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Association	<ul style="list-style-type: none"> Objectively assessed Causal 	<ul style="list-style-type: none"> Subjectively assessed Correlational 	<ul style="list-style-type: none"> Objectively assessed Correlational

Measuring Stress-Related Eating



Emotion/Stress	<ul style="list-style-type: none"> • Laboratory induction • Single, specified type • Objectively selected 	<ul style="list-style-type: none"> • Naturally occurring • Unspecified type(s) • Subjectively selected 	<ul style="list-style-type: none"> • Naturally occurring • Unspecified type(s) • Both possible
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Stress-Related Eating: Some Findings From Laboratory Studies



Laboratory Studies of Stress-Related Eating

Acute Stressors Average Impact on Immediate Food Intake?

Stress and eating behaviours in healthy adults: a systematic review and meta-analysis

Deborah Hill, Mark Conner, Faye Clancy, Rachael Moss, Sarah Wilding, Matt Bristow & Daryl B. O'Connor

To cite this article: Deborah Hill, Mark Conner, Faye Clancy, Rachael Moss, Sarah Wilding, Matt Bristow & Daryl B. O'Connor (2022) Stress and eating behaviours in healthy adults: a systematic review and meta-analysis, *Health Psychology Review*, 16:2, 280-304, DOI: [10.1080/17437199.2021.1923406](https://doi.org/10.1080/17437199.2021.1923406)

To link to this article: <https://doi.org/10.1080/17437199.2021.1923406>

Acute Stressors
cause an extremely small
increase in food intake on
average among adults
without pre-existing
medical conditions

Sources

- Hill *et al* (2022); DOI: [10.1080/17437199.2021.1923406](https://doi.org/10.1080/17437199.2021.1923406)



Laboratory Studies of Stress-Related Eating

What Predicts Acute Stressors' Impact on Food Intake?

Cognitive (dietary) restraint refers to an intention to eat less overall and/or less of foods viewed as unhealthy.

Cognitive Restraint?

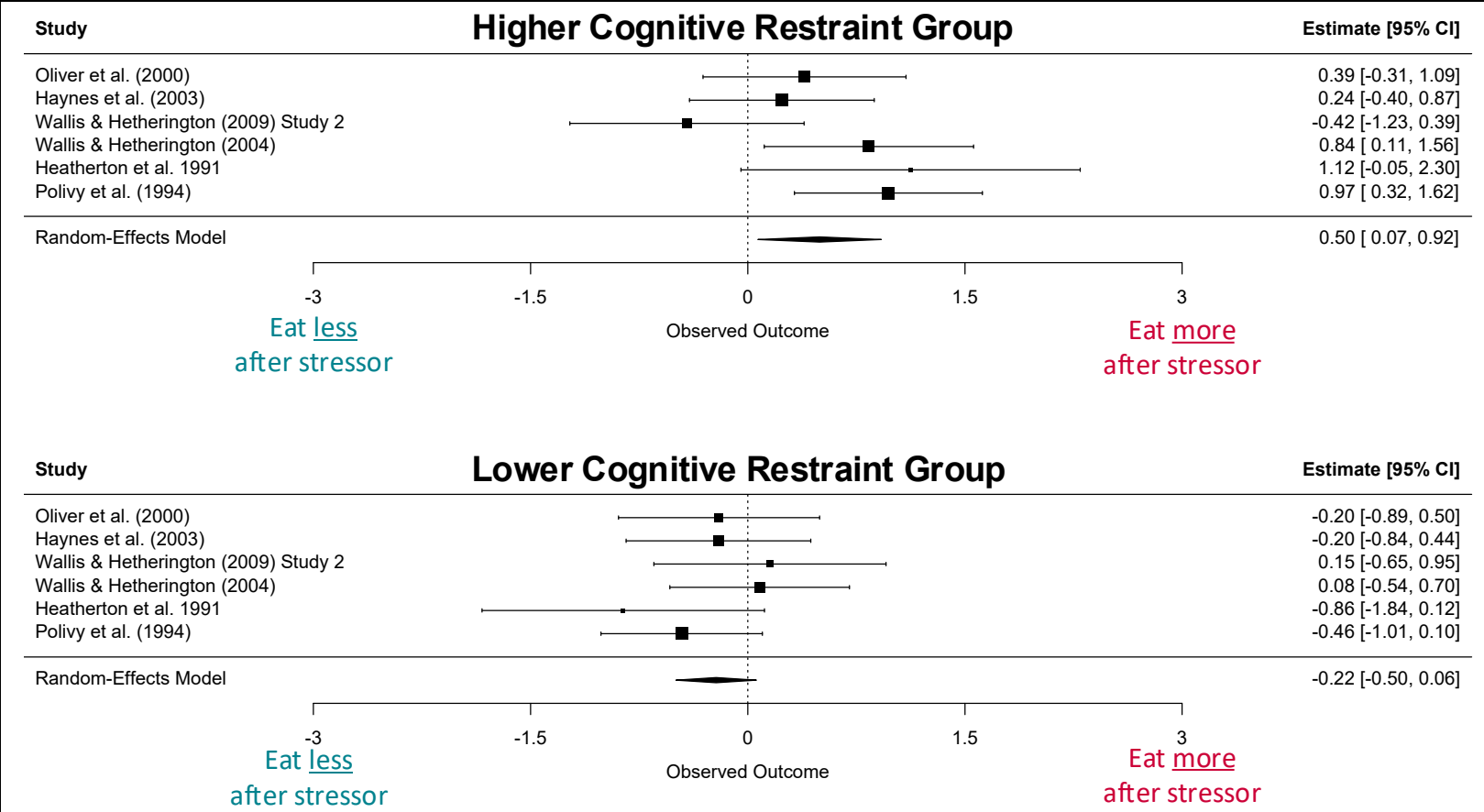
Sources

- Lowe & Thomas, Chapter 5 in *Handbook of Assessment Methods for Eating Behaviors* (2009); URL: <https://us.sagepub.com/en-us/nam/handbook-of-assessment-methods-for-eating-behaviors-and-weight-related-problems/book230593#contents>



Laboratory Studies of Stress-Related Eating

What Predicts Acute Stressors' Impact on Food Intake?



Self-Report of Higher Cognitive Restraint is associated with more food intake when stressed among adults



Laboratory Studies of Stress-Related Eating

Does Food Intake Alter the Impact of Acute Stressors?

Eating Comfort Foods does not (on average) reduce subjectively experienced stress or biological measures of stress, either when consumed while anticipating the stressor or immediately after the stressor

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Cookie or clementine? Psychophysiological stress reactivity and recovery after eating healthy and unhealthy comfort foods

Laura E. Finch^{*,1}, Jenna R. Cummings², A. Janet Tomiyama

University of California, Los Angeles, Department of Psychology, 1285 Franz Hall, 502 Portola Plaza, Los Angeles, CA 90095, USA



Sources

- Finch *et al* (2019); DOI: 10.1016/j.psyneuen.2019.04.022



Stress-Related Eating: Take-Away Messages



Take-Away Messages on Stress-Related Eating

Food Intake Immediately After a Single Acute Stressor . . .

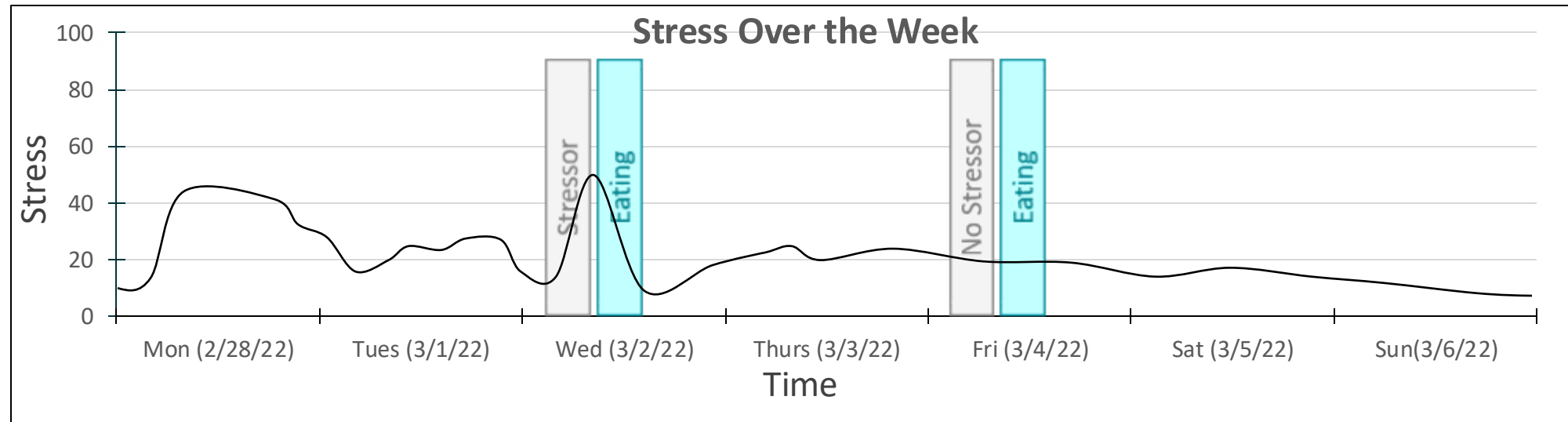
- Some people do seem to eat more
 - They are not necessarily the people who report eating more when stressed in general
 - They are more likely to be people who report higher cognitive restraint
- A similar number of people seem to eat less
 - They are not necessarily the people who report eating less when stressed in general
 - They are (slightly) more likely to be people who report lower cognitive restraint



Take-Away Messages on Stress-Related Eating

What Does Self-Report of Stress-Related Eating Not Seem to Measure?

How single acute stressors affect people's eating behavior immediately after the stressor



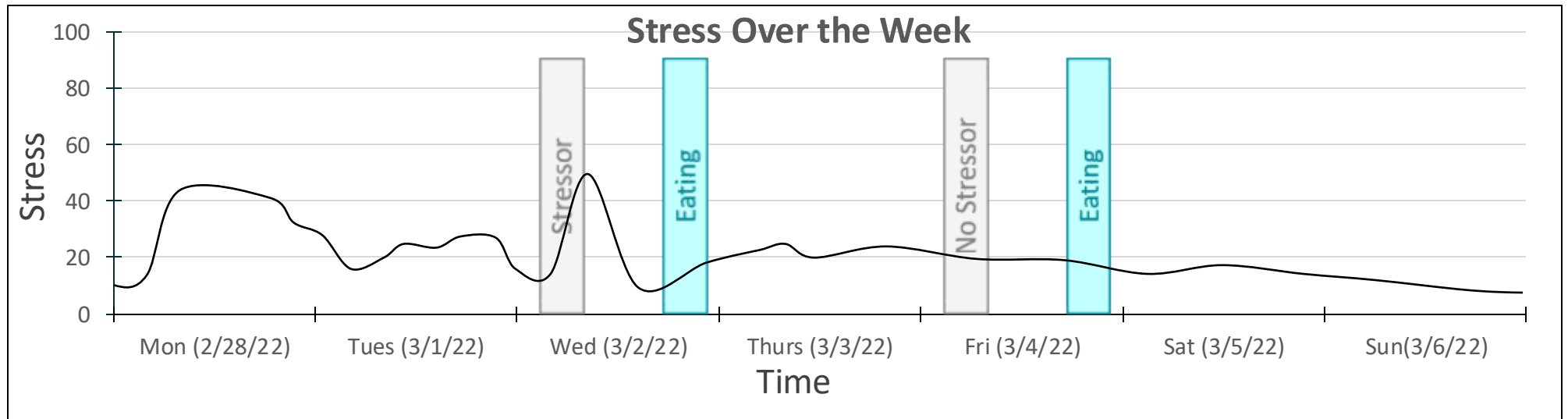
Take-Away Messages on Stress-Related Eating

What Might Self-Report of Stress-Related Eating Actually Measure?

A Different Aspect of Stress-Related Eating?

- Delayed response to acute stressors?

Reichenberger et al (2021)



Sources

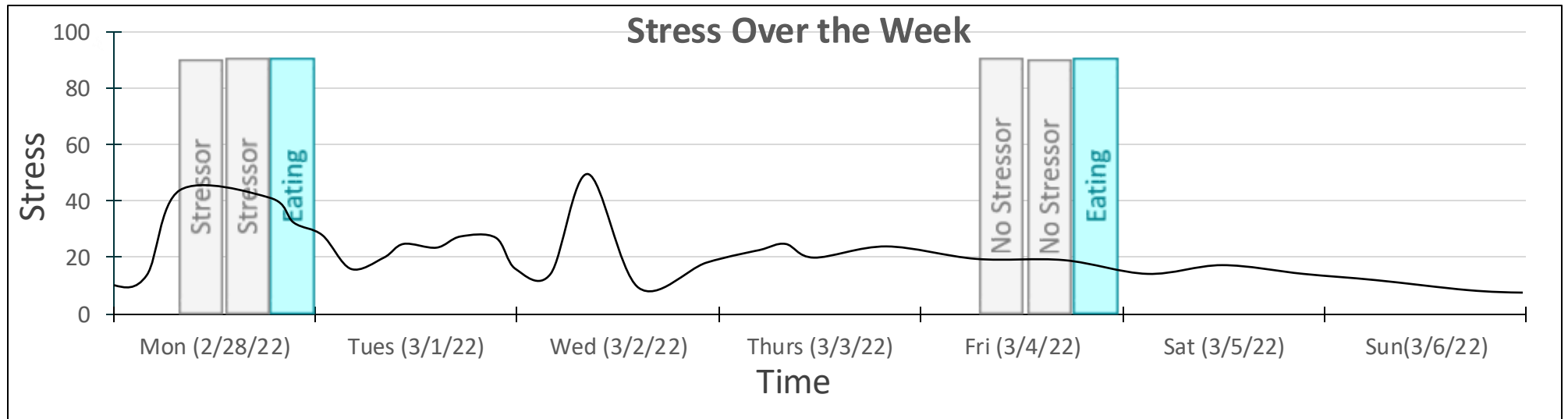
- *Reichenberger et al (2021)*; DOI: 10.1080/08870446.2020.1781122

Take-Away Messages on Stress-Related Eating

What Might Self-Report of Stress-Related Eating Actually Measure?

A Different Aspect of Stress-Related Eating?

- Delayed response to acute stressors?
[Reichenberger et al \(2021\)](#)
- Response to pileup of acute stressors?



Sources

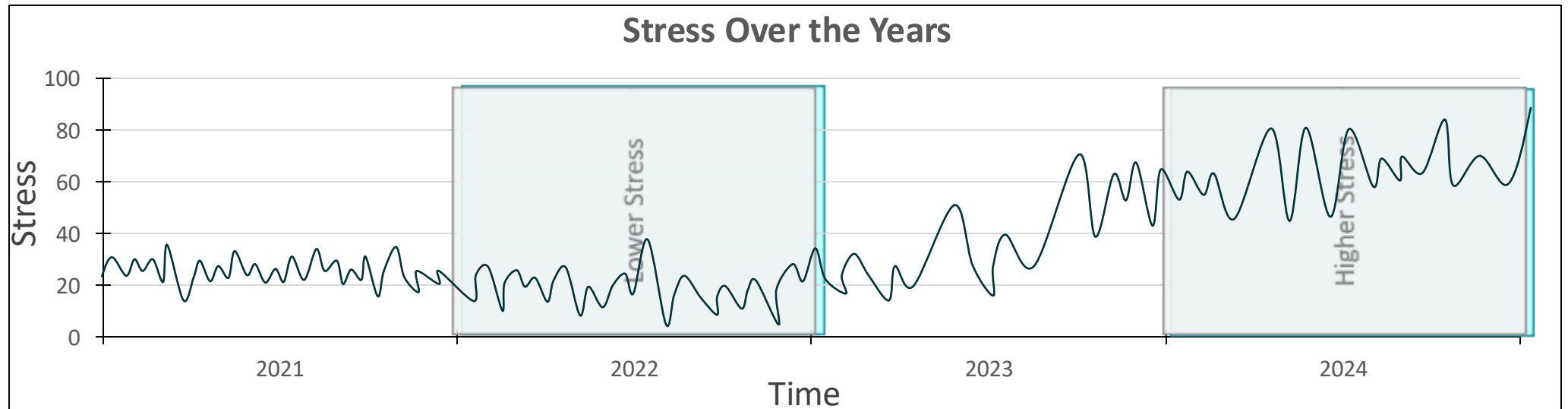
- Reichenberger et al (2021); DOI: 10.1080/08870446.2020.1781122

Take-Away Messages on Stress-Related Eating

What Might Self-Report of Stress-Related Eating Actually Measure?

A Different Aspect of Stress-Related Eating?

- Delayed response to acute stressors?
[Reichenberger et al \(2021\)](#)
- Response to pileup of acute stressors?
- Response during periods of generally high or prolonged stress?



Sources

- [Reichenberger et al \(2021\)](#); DOI: 10.1080/08870446.2020.1781122

Take-Away Messages on Stress-Related Eating

What Might Self-Report of Stress-Related Eating Actually Measure?

A Different Aspect of Stress-Related Eating?

- Delayed response to acute stressors?
[Reichenberger et al \(2021\)](#)
- Response to pileup of acute stressors?
- Response during periods of generally high or prolonged stress?

Something Else?

- Greater concern about one's eating ([Adriaanse et al., 2011](#); [Jansen et al., 2011](#))
- Tendency to erroneously attribute past overeating to negative emotions or stress ([Adriaanse et al., 2016](#))
- Tendency to overestimate one's eating when stressed ([Royal & Kurtz, 2010](#))

Sources

- [Reichenberger et al \(2021\)](#); DOI: 10.1080/08870446.2020.1781122
- [Adriaanse et al \(2011\)](#); DOI: 10.1080/08870440903207627
- [Jansen et al \(2011\)](#); DOI: 10.1002/eat.20799
- [Adriaanse et al \(2016\)](#); DOI: 10.1016/j.appet.2016.04.028
- [Royal & Kurtz \(2010\)](#); DOI: 10.1016/j.paid.2010.04.022



Take-Away Messages on Stress-Related Eating

Is “stressed” really “desserts” spelled backwards?

- For some people Yes
- But for other people



Take-Away Messages on Stress-Related Eating

Is “stressed” really “desserts” spelled backwards?

- For some people Yes
- But for other people

STRESS rhymes with LESS





Mass General Brigham

Thank You for Listening!