



NCI Research Day – 20<sup>th</sup> June 2022 Measuring attitudes towards obesity from a behavioural perspective: theory and research Dr Conor Nolan

## Today...

- Theory:
  - BRIEF!
  - Why?
  - Disclaimer
- Research:
  - "Attitudes" towards weight/obesity
  - Do these attitudes predict exercise?

▷ Teach you a new word



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#### Evidence suggests that derived relational responding is not a prewired capacity, but that it is **learned** (Rehfeldt & Hayes, 1998).

- Taught thousands of examples through language in early years, and learn the ability to derive relations.
- ▷ Not everyone can do it.
- ▷ Also taught specific relations based on culture and community.

Heavy Drinkers

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### Stigma and attitudes

- ▷ Begins to explain how "attitudes" are developed.
- We don't need to be explicitly taught/told relationships between stimuli

   our deriving of these relationships may lead to stigmatising
   attitudes/beliefs
- The ability to derive relationships is extraordinarily useful...but not always right...

### The IRAP

- The IRAP (Implicit Relational Assessment Procedure) is a tool designed to measure our learned history of relating stimuli to each other.
- From a behavioural psychology perspective, we view this as a measure of "verbal relations in flight" & the strength of these relations
- From a social psychology perspective, it can be viewed as a measure of "attitudes".

### The IRAP

- IRAP is based on a theory of learned histories
- Presents participants with a 'rule' on how to respond
- If the rule is consistent with their learned histories response times (latency) will be quicker (stronger
- If the rule is inconsistent with their learned histories response times (latency) will be slower





### The Present Research

- Used the IRAP to assess relational weight biases and investigate the influence of these biases on self-reported physical activity.
- Effectively, what attitudes do people hold towards weight (thinness/obesity) and do our attitudes towards weight predict our exercise activity?

Rule A Respond as if fat is bad and slim is good Rule B Respond as if fat is good and slim is bad	
Label 1: Slim Silhouette	Label 2: Overweight Silhouette
Target: Positive	Target: Negative
Good	Bad
Pleasant	Unpleasant
Attractive	Unattractive
Successful	Unsuccessful
Active	Lazy
Motivated Response option 1: Same	Unmotivated Response option 2: Opposite



#### Weight Bias

#### Weight IRAP

Demographic Quesitonnaire

Anti-Fat Attitudes Questionnaire (AFA) (Crandall, 1994)

Godin Leisure-Time Exercise Questionnaire (GLTEQ)

(Godin & Shephard, 1985)

#### Participants

33 Participants

19 female, 14 male

Age range of 20-58 years (*M*=33.03, *SD*=10.17)



- 1. Participants most quickly affirmed the relation between the slim silhouette and positive words
- 2. Participants rejected the relation between slim silhouette and negative words

### What does this mean?

- Participants in this sample appeared to demonstrate a "pro-slim" response bias, but did not demonstrate a significant "anti-fat" bias.
- If looking at the direction of the IRAP scores for the "fat" trials, appears to be in an "anti-fat" direction – but scores were not stat sig.
- Relationship to exercise?
- The two significant IRAP trial types explained 35.2% of variance in physical activity levels, as reported by the Godin (F (2, 30) = 9.68; p = .001).
- Slim-positive trial type was found to independently predict physical activity levels to a statistically significantly level: slim-positive trial type (β = .54, p = .001)

### What does this mean?

- ▷ The sample showed strong pro-thin attitudes
- ▷ Pro-thin attitudes were predictive of level of exercise.
- ▷ Not much on attitudes towards "fat/obese"
  - Some minor self-report attitudes
- ▷ INTERESTINGLY...
- These results are almost exactly identical to another piece of research...
   (O'Neill, Harte, Nolan, Kane & Kelly)



**IRAP** Results

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### Summary

- The IRAP is based on behavioural theory, and is a VERY malleable/adaptable tool
- Can be used to measure "attitudes" towards virtually anything and everything.
- Behavioural researchers look at the results from one perspective, social psych researcher look at the results from a different perspective.
- The present research found that participants displayed pro-slim attitudes, but not anti-fat ones.
- Pro-slim attitudes predicted exercise activity
- The present IRAP results are similar to other research
- Are anti-fat attitudes less prevelant? Or is it a methodological issue...?