

The Impact of Covid-19 Hygienic Measures on Food Choice and Eating Behavior

Jarina G. Oliveira¹, Ph.D Adriana Sampaio¹, Ph.D Olivia M. Lapenta¹

¹Psychological Neuroscience Lab, CIPsi, School of Psychology, University of Minho, Campus de Gualtar, Braga, Portugal.

Study background

Behaviors towards foods are sensitive to many factors;

Altering food choices, preferences and even the flavor perception (Spence, 2017).

With the Covid-19 pandemic everyday life have been changing (Bavel et al., 2020);

And **behavioral outcomes in eating, purchasing and preferences relate to food** were reported (Marty et al., 2021; Martinez-de-Quel, 2021; Poelman et al., 2021).

Priming effects can provoke behavioral changes (Dijksterhuis, 2016).



Research question

Does the hygienic measures adopted during Covid-19 pandemic can influence and modify food choice and food attractiveness?



Our hypothesis

Is that the **hygienic protocols decrease the attractiveness of food.**





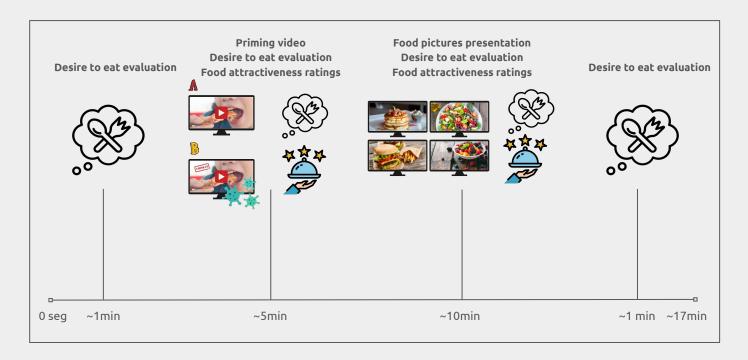


Task design

Men and women between 18 and 59 years old

Demographic data

Self-report scales: PHQ-9, GAD-7, LOCES **Covid-19** and **eating behavior** informations



Methodology and sample characterization

(CEICVS 129/2020)

N=85

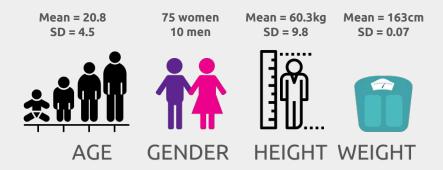
Experimental protocol was build and applied through an online platform.

Data collection - February and April.

Data analysis using Jamovi software - April and June.

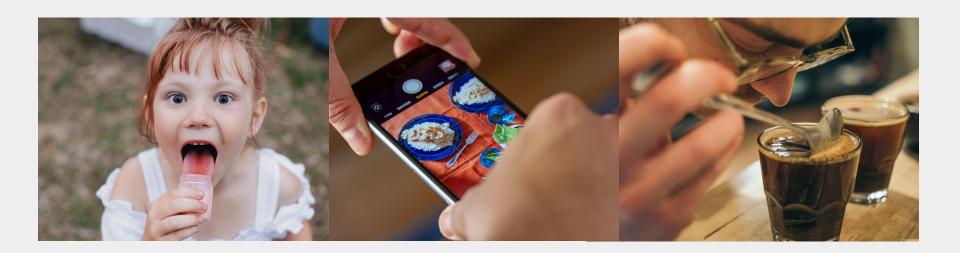
Psychologically, our sample has **heterogeneous markers** for **anxiety and depression** symptomatology.

LOCES mean score is 1.8 (SD=0.56)



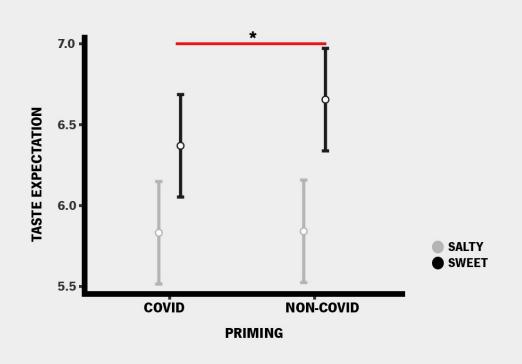
Results / images

Saliency in Sweet foods over salty foods and High calories food over low calories food ratings in all evaluated dimensions.



Results / priming

A priming effect was observed on sweet testant comparing Covid and Non Covid conditions.

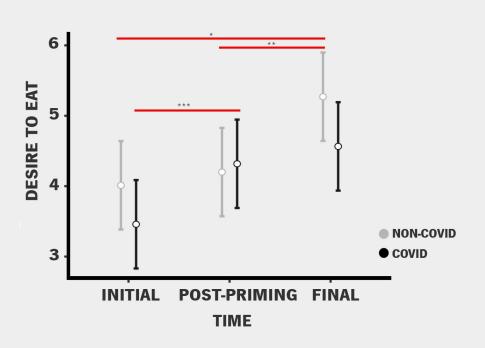




Results / videos

Significant increased in ratings in final desire to eat in both conditions.

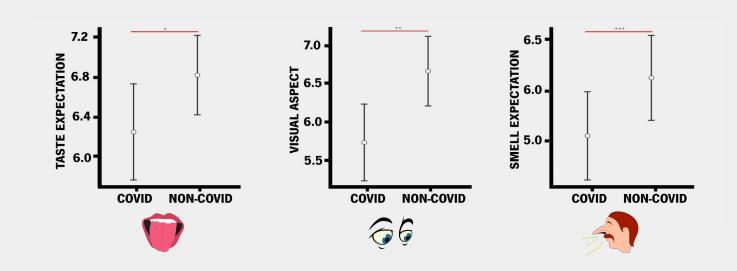
Ratings increase on initial and post-priming evaluations for Non Covid condition.





Results / videos

Greater evaluations in Non-Covid condition evaluations, in all dimensions.



Negative correlations between the smell evaluation and PHQ-9 only at the Covid condition.

Conclusions

Our study supported previous findings

Greater evaluations to sweet and high-calorie foods compared to salty and low-calorie ones

(Ohla et al., 2012; Buckland et al., 2021)

Increased desire to eat after food exposure

(Sun & Kober, 2020)



Hygienic measures of Covid-19 may elicit lower smell assessment and desire to eat

Priming effect was observed for sweet food pictures evaluation, but not other food categories





Thank you

oliveirajarina@gmail.com