

INTRODUCTION

- ❖ 30-60% of COVID-19 cases end up with olfactory loss/dysfunction.
- ❖ Olfactory loss affects our social, mental and survival abilities.
- ❖ Olfactory training is the most promising method.

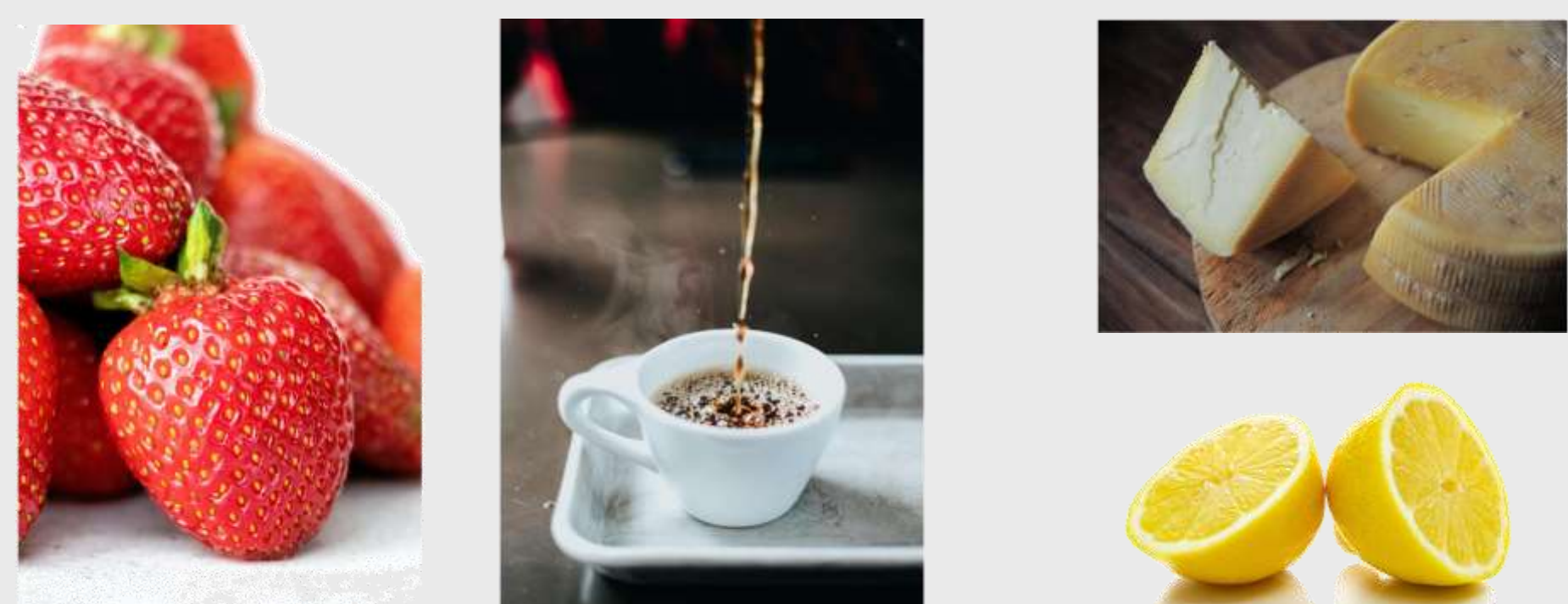
OBJECTIVES/HYPOTHESES

Objective: The purpose of this study is to test a new multi-sensory olfactory training alongside the already existing classical olfactory training with new stimuli.

Hypotheses:

1. There is a significant increase in UPSIT scores in both groups.
2. There is a significant decrease in QOD scores in both groups.
3. There is a significant increase in self-evaluation scores in both groups.

IMAGES



MATERIALS & METHODS

Participants:

- ❖ Classical Olfactory Training Group (COT): 20 participants (15 women, 5 men)
- ❖ Multi-sensory Olfactory Training Group (MOT): 16 participants (11 women, 5 men)

Measurements:

- ❖ UPSIT (University of Pennsylvania Smell Identification Test)
- ❖ QOD (Questionnaire for Olfactory Dysfunctions)
- ❖ Self-evaluation

OLFACTORY TRAINING

Classical Olfactory Training:

- ❖ Twice a day sniffing-only the bottles
- ❖ 4 different bottles with odours (strawberry, cheese, coffee, lemon)

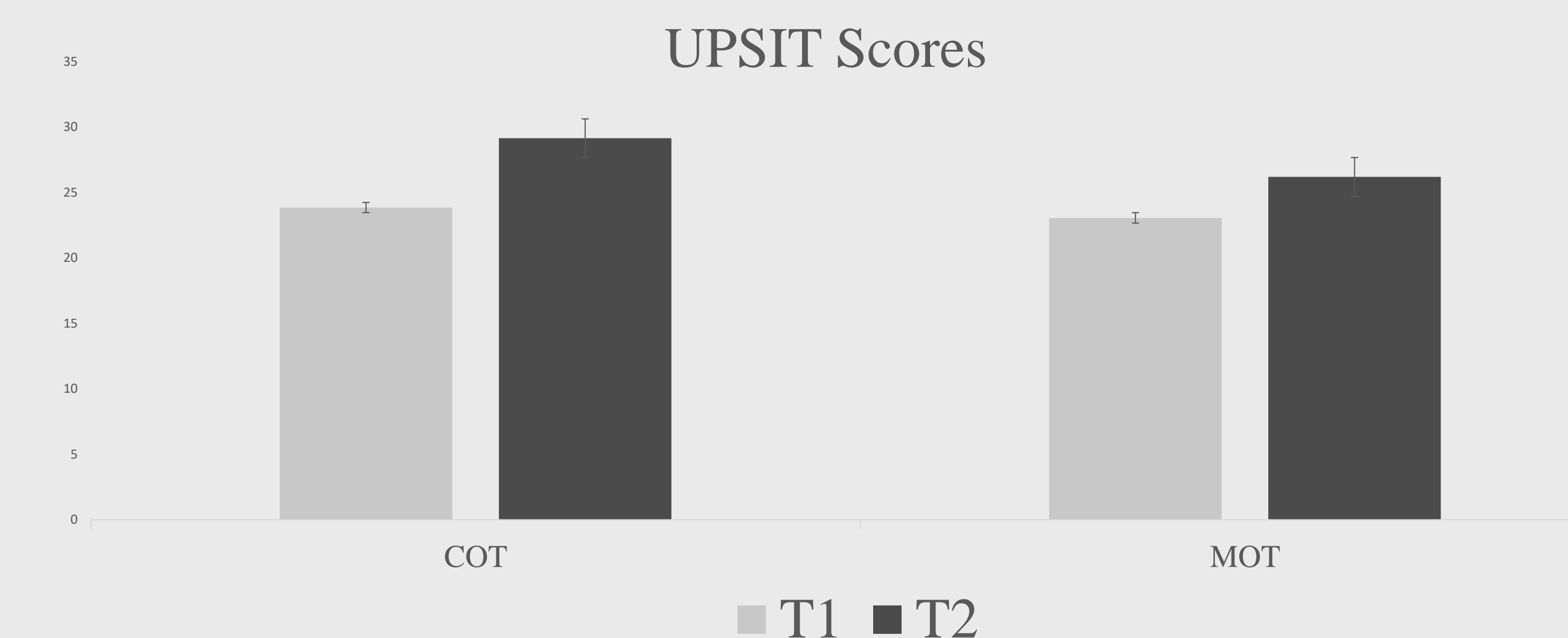
Multi-sensory Olfactory Training:

- ❖ Twice a day droplets at the back of throat
- ❖ 4 different bottles with flavours (sweet-sucrose strawberry, salty-sodium chloride cheese, bitter-Sucrose Octaacetate-coffee, sour-citric acid lemon)

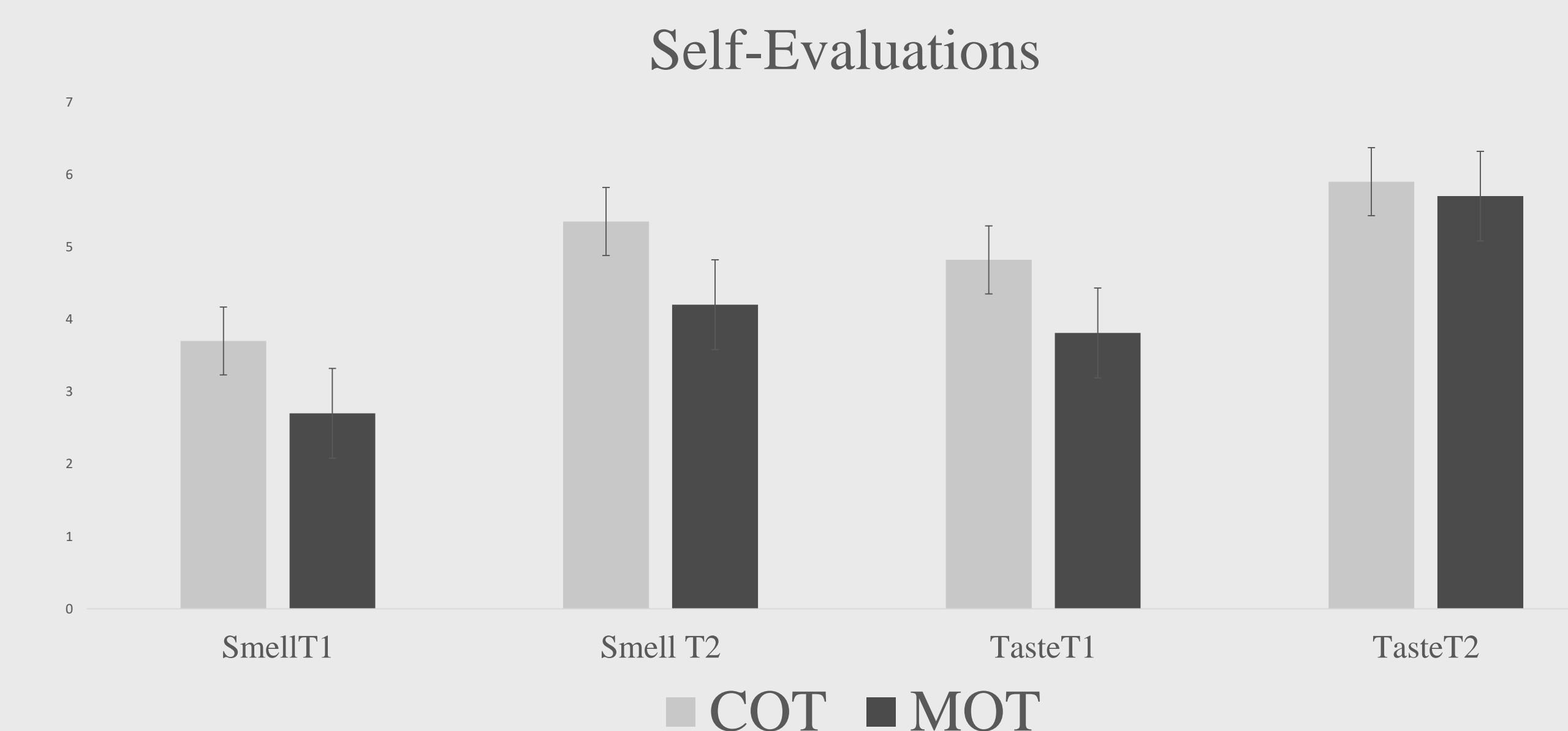
12 weeks of self-administration for both groups.

RESULTS

- ❖ There is a significant effect of time on both groups, $F(1, 34) = 18.7, p < .001, \text{Wilk's } \Lambda = .645, \text{partial } \eta^2 = .35.$



- ❖ There is a significant effect of time on both smell and taste self-evaluations on both groups $F(1, 34) = 18.7, p < .001, \text{Wilk's } \Lambda = .45, \text{partial } \eta^2 = .55.$



- ❖ There is no significant effect of time on QOD scores in both groups.

CONCLUSIONS

- ❖ First multi-sensory olfactory training with gustation & vision combined.
- ❖ Multi-sensory training works.
- ❖ Sex ratio between men and women is big.
- ❖ We might need stronger solutions rather than natural such as in Sniffin' Sticks.

REFERENCES & ACKNOWLEDGEMENT



CONTACT INFO

Gözde Filiz
gozde.filiz@uqtr.ca

