



# International Young Naturalists' Tournament (IYNT)

## Presentation of Survey Findings On Parosmia

**Theme:** *Misperception of odor as a  
post COVID-19 side effect*



# Structure of Presentation

1. Introduction
2. Background to Parosmia
3. Survey Methodology
4. Survey Findings
  - ✓ Background Characteristics
  - ✓ Characterization of Parosmia
5. Discussion of Survey Findings
6. Conclusions
7. Recommendations



## Introduction

- ✓ **Parosmia is a condition of misperception of odor. It comes from the word **anosmia** which means loss of smell.**
- ✓ **Parosmia can be manifested with having weird smell in the nose**



# Background to Parosmia

Parosmia is a condition of misperception of odor caused by damaging the cells that support the olfactory neuron called sustentacular which are responsible for transmission of impulses from nose to the brain for interpretation.

Damaging the cells that support the olfactory canal cuts off its supply of nutrients.



# Survey methodologies



We use different methods of collecting data which included;

- Coming up with questionnaires that were answered by different people in different places
- Random interviewing of different people that were students, teachers, doctors.
- Visiting different hospitals .
- Consultations from medical personnel.



# STATISTICAL STUDY RESULTS

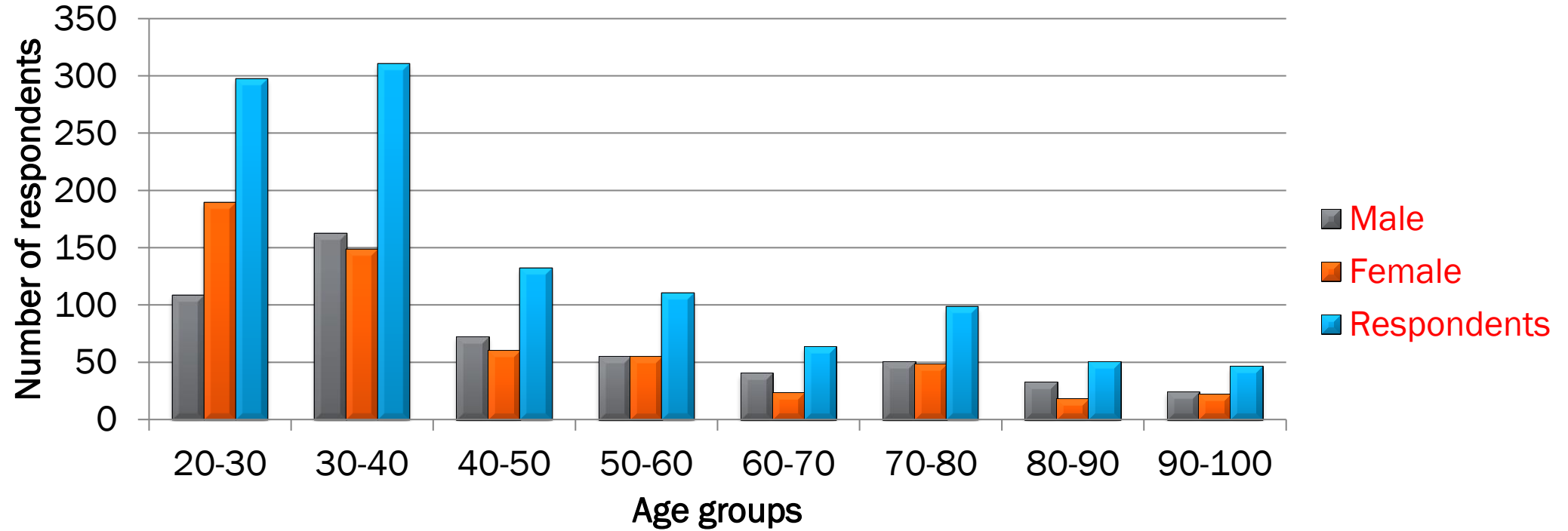
A survey carried out in various districts, towns, and villages in UGANDA to find out:

- The most affected gender, age, career fields.
- Time of recovery
- Most affected places

# TABLE OF SURVEY FINDS

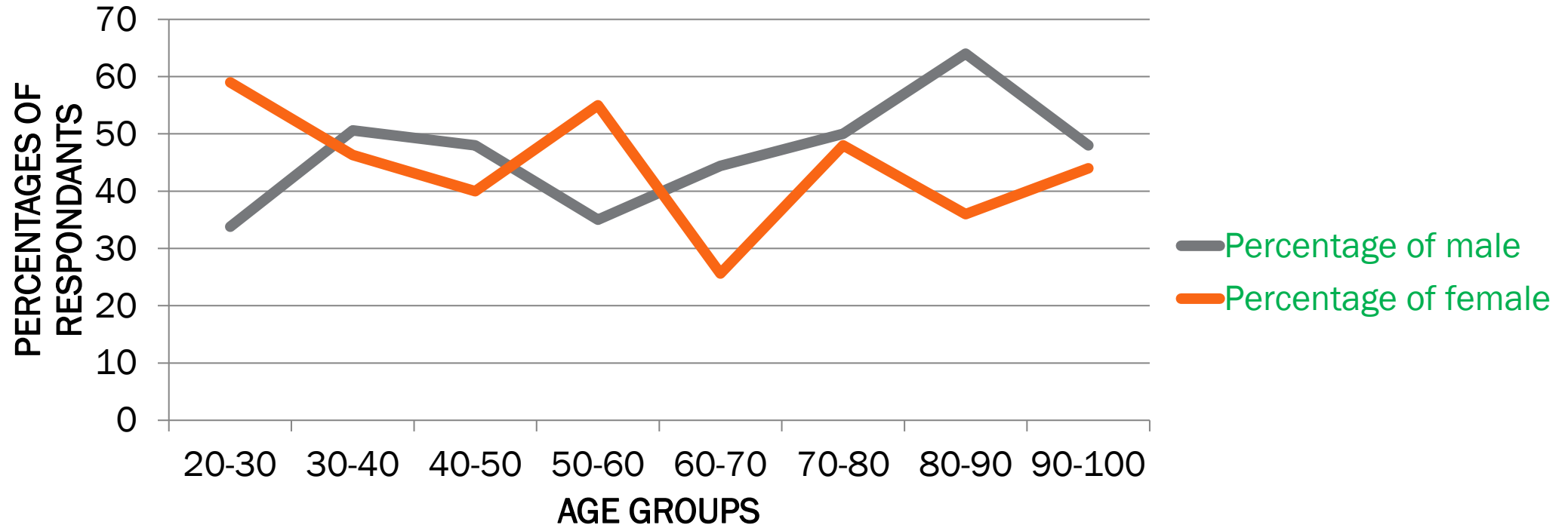
Age group	Male	Female	Percentage of male	Percentage of female	Average time of recovery	Respondent s	Respondent s that didn't suffer the dysfunction
20-30	108	189	33.8	59	2 weeks	297	7.2
30-40	162	148	50.6	46.3	2.5 weeks	310	3.1
40-50	72	60	48	40	3.5 weeks	132	12
50-60	55	55	35	55	3.5 weeks	110	10
60-70	40	23	44.4	25.6	4 weeks	63	30
70-80	50	48	50	48	5 weeks	98	2
80-90	32	18	64	36	6 weeks	50	0
90-100	24	22	48	44	6 weeks	46	8

# A BAR GRAPH SHOWING VARIATION OF PAROSMIA AMONGST DIFFERENT GENDERS WITH AGE GROUPS

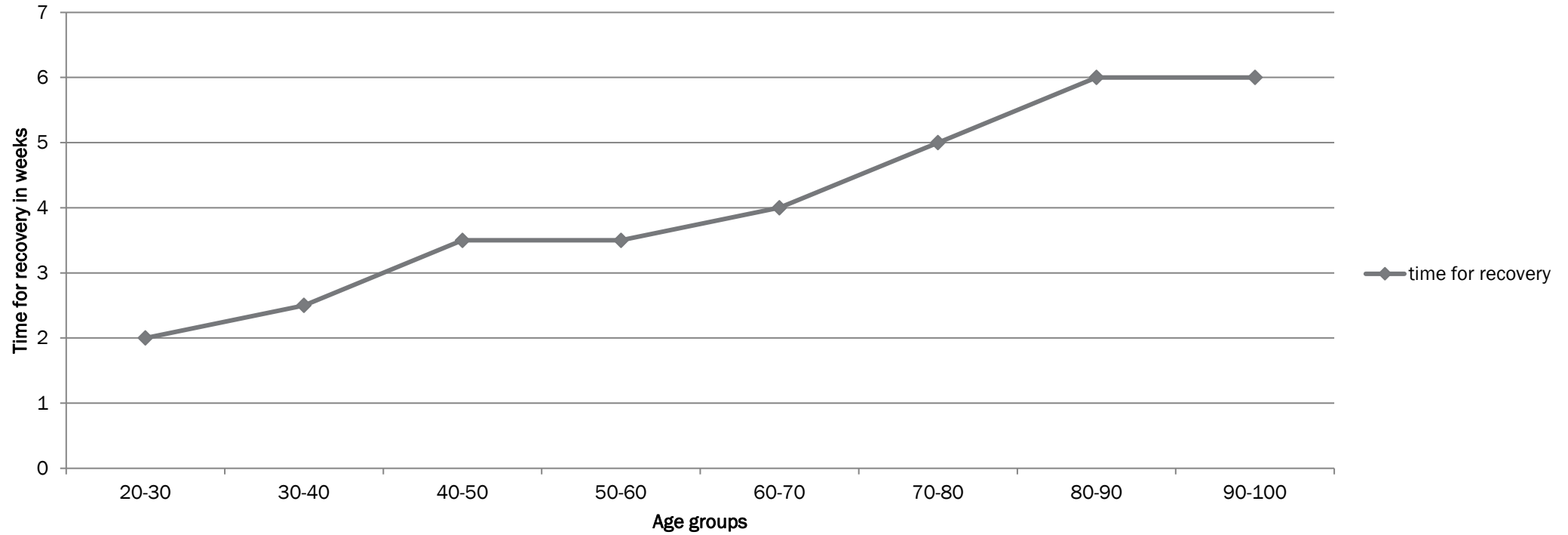




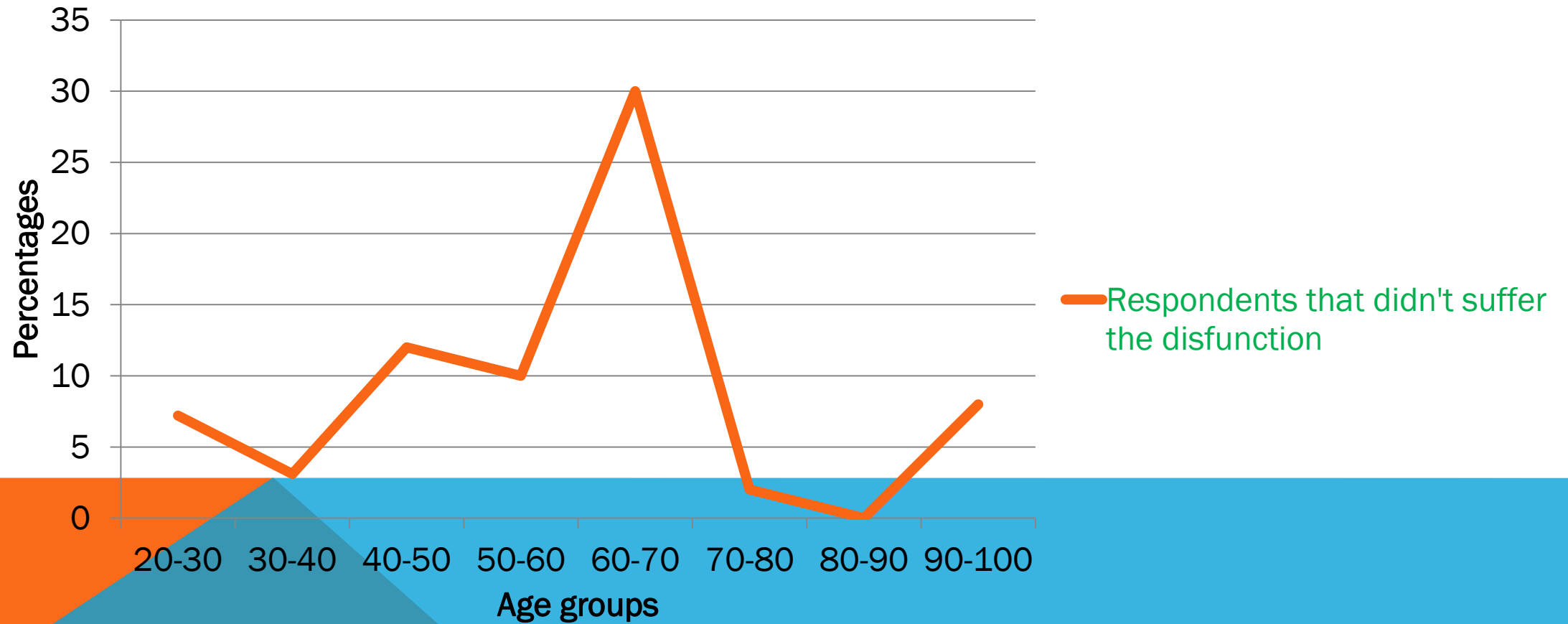
# A LINE GRAPH OF PERCENTAGES OF RESPONDENTS WITH AGE GROUPS



# A LINE GRAPH OF TIME OF RECOVERY FROM THE PAROSMIA WITH AGE GROUPS



# A LINE GRAPH OF RESPONDENTS AGAINST AGE GROUPS






# Discussion of Survey Findings



From the survey finds carried out between 1<sup>st</sup> August, 2022 and 10<sup>th</sup> August, 2022 the different data collected could characterize the dysfunction in the following ways:

- 1. Mainly common among the age group of 30-40 although most persistent among the elderly of age group of 80-90.**
- 2. Mainly among the female this is because for the female in the areas of study, majority of the male do manual work such as un mechanized agriculture that involves tilling of land which is a form of physical exercise thus keeping their bodies fit and more tolerant to post COVID-19 side effects including misperception of odor where as majority of women are house wives doing less tiresome work thus their bodies are not physically fit as compared to the men**

## **EXAMPLES OF MANUAL LABOUR CARRIED OUT**

- **CULTIVATING OF LAND**
  - **construction**
  - **Brick laying**
  - **Operating of heavy machines in industries**
  - **Harvesting of crops**
- 

## Discussion of survey findings

- 3. It was short lived among the teenagers and young adults of age group 20-30.**

**It was more rampant in urban centers than in villages.**

**Among the villages because people in villages are more exposed to the local indigenous foods are organic such as lemons, oranges, sweet potatoes, potatoes, cassava, ginger and vegetables like Dodo that are fresh and can boast the immunity thus such people could easily resolve the dysfunction.**

# LOCAL INDIGENOUS FOODS



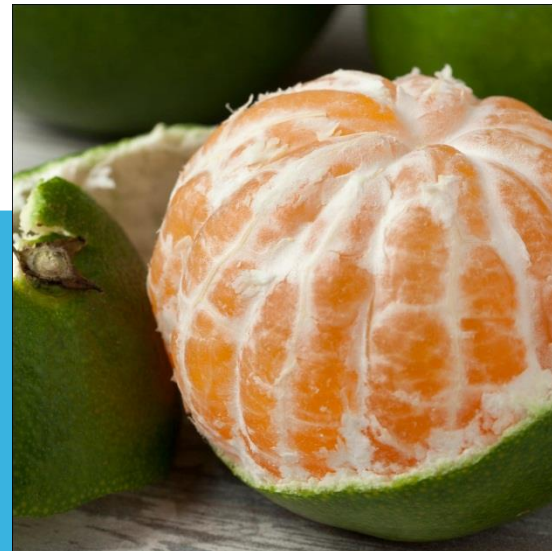
Irish potatoes



Lemons



Dodo



Oranges



## **Conclusion**

The condition of misperception of odor was accompanied with  
loss of test

Parosmia was short lived among the young Of age group 20-30

This condition was most persistent among the elderly

Parosmia was most evident among the male but less persistent  
among them

This condition was long lived among the female





## Recommendations

**As a team we would recommend people to do the follow so as to easily recover from the kind dysfunction**

- **Eat organic foods**
- **Do regular physical exercises**
- **Go for vaccination against COVID -19**



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# References



**Uganda Ministry of health report @MinofhealthUG Twitter page**



**Thank You for  
listening**

**END**