Subjective Smell And Taste Changes Early In The COVID-19 Pandemic: Initial Results And 1-Month Follow-Up

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Objective

To assess the severity of and recovery from smell and taste changes experienced by patients during the COVID-19 pandemic.

Introduction

Since the beginning of the COVID-19 pandemic in early 2020, smell and taste loss has been recognized as a hallmark symptom of infection. Patients who have lost smell or taste due to the virus often ask if or when these senses will return. We present this 1-month follow-up study of a large, nationwide cohort of patients to address potential recovery of smell and taste loss with COVID-19.

Methods

• A REDCap online survey was performed using social media recruitment between April 10, 2020 through June 7, 2020. Follow up surveys were sent at 14 days, 30 days, 3 months, and 6 months
• Participants rated smell and taste as “Very Good”, “Good”, “Poor”, “Very Poor”, or “Absent” at all time points

Inclusion Criteria (participants met one or both criteria):

1) Change in smell or taste occurring after January 1, 2020
2) Diagnosed COVID-19 by medical professional or (+) test

Results

• 549 participants met one or both inclusion criteria
  – 260 (47.4%) were diagnosed with COVID-19 by a medical professional or testing
  – 289 (52.6%) were not diagnosed, but experienced smell or taste change
• More than 60% of participants experienced a decrease in their smell or taste to “Absent” or “Very poor”
  – At 14-day follow up: Recovery of smell to “Very good” or “Good” in 67.1%. Recovery of taste to “Very good” or “Good” in 73.1%
  – At 30-day follow up: Recovery of smell to “Very good” or “Good” in 71.8%. Recovery of taste to “Very good” or “Good” in 84.2%

Discussion and Conclusions

• Smell and taste changes have proven to be a prevalent symptom of COVID-19 during the pandemic
• This study demonstrates that nearly 75% of participants with smell or taste loss during the pandemic recovered to “Very good” or “Good” smell or taste within 30 days
• While most patients recovered their smell or taste within the first 14 days, some patients experienced recovery between the 14-day and 30-day time points
• Patients can expect that they will most likely experience substantial recovery of smell and taste deficits caused by COVID-19 within the first 30 days after symptom onset

References


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