

### STAFF REPORT

Report To:	Board of Health	Meeting Date:	October 7, 2021
Staff Contact:	Nicki Aaker, Health and Human Services Director		
Agenda Title:	For Discussion Only: Discussion and presentation on a statistical data analysis of COVID-19 cases in Carson City, Douglas, Lyon and Storey Counties, by Celeste Pierini, BSN, RN, MPH candidate. (Nicki Aaker, NAaker@carson.org)		
	Staff Summary: Ms. Pierini will present a statistical data analysis of COVID-19 cases in the Nevada quad counties.		
Agenda Action:	Other / Presentation	Time Requested	: 15 minutes

### Proposed Motion

N/A

Board's Strategic Goal Quality of Life

Previous Action

N/A

### Background/Issues & Analysis

The Carson City Health and Human Services Department ("CCHHS") provides internship opportunities for both undergraduate and graduate students. This allows for students studying public health to work on a project that will enhance the skills the individual learns in the classroom. These internships are part of the school curriculum and are required for graduation. CCHHS has provided several internships and has hired a couple of interns. Mrs. Pierini is a part-time employee with CCHHS and, between April 5, 2021 and October 7, 2021, was also a CCHHS intern while working towards a master's degree in Public Health.

At the beginning of the pandemic, Mrs. Pierini worked as a disease investigator and, as she reviewed COVID-19 cases, felt that ethnic disparities were evident. This led to her desire to further explore her theory during the internship. Her statistical data analysis is for the time period of 4/8/2020 through 5/7/2021 and covers 6,214 cases. All identifying client information was deleted and not used as part of the analysis. In addition, a health care and public health qualitative survey was sent to the Carson Medical Group, the Carson City Fire Department, CCHHS, Carson Tahoe Health, the Carson Valley Medical Center Emergency Department and the Douglas County Public Health Nurse. Information from Carson Tahoe Health could not be used in this analysis due to time constraints.

### Applicable Statute, Code, Policy, Rule or Regulation

N/A

Financial Information

Is there a fiscal impact? No

### If yes, account name/number:

Is it currently budgeted?

**Explanation of Fiscal Impact:** 

### <u>Alternatives</u>

N/A

### Attachments:

C. Pierini PresentationPowerPoint Slides for Board Packet.pdf

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### Board Action Taken:

Motion:

1)\_\_\_\_\_ 2)\_\_\_\_\_ Aye/Nay

(Vote Recorded By)



## **COVID-19 and Ethnicity:**

Does ethnicity play a role in a higher rate of illness and if so, what are the contributing factors?

A statistical data analysis of the Quad Counties





Ethnicity Breakdown for total cases:

- Non-Hispanic: 70.6% (n=4384)
- Hispanic/Latinx: 29.4% (n=1829)
- \*Pacific Islander 0.02% (n=1)

\*did not analyze further

### Location of

#3 Douglas County (28.2%) #4 Storey County (0.48%) #2 Lyon County (29.8%) #1 Carson City (38.3%)

"Other" - 2500J











### Findings

 $Carson \ City \ _{37.2\% \ of \ all \ cases \ in \ NV} (as \ of \ July \ 2021) \ of \ Hispanic \ ethnicity$ Hispanic population for Quad County is 30,074 (18.1%)

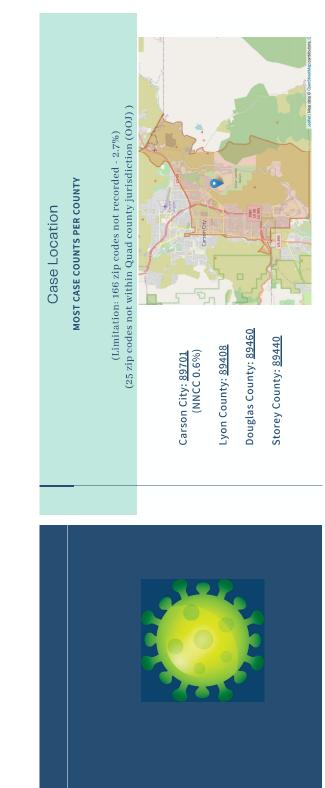


57% Non-Hispanic
43% Hispanic

Nearly 1/3 of Carson City cases of Hispanic ethnicity

Total Hispanic population in Carson City is 24.4%

IMPORTANT- considering the large disparity in overall cases



# Source of Infection

### **TOP 3 :**

<u>Community Spread</u>: **40%** of all cases H - 39.8%; NH - 40.1%

Household Spread: 22% of all cases H - 31.1%; NH - 18.3%

<u>Workplace Spread</u>: **8**% of all cases H - 6.8%; NH - 8.5% "Unknown" Source - 23.5% of cases

Qualitative Survey of Healthcare & Public Health Professionals

### <u>Survey Respondents</u>

53.4% Bedside/Diagnosis/Treatment

32.5% Investigations/Quarantine

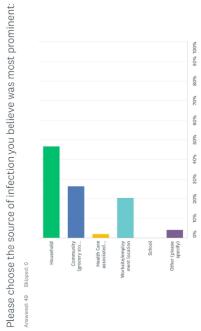
14.1% "Other"

Administration support, testing, appointments, Call Center, scheduling



# But... Community and Household source still in Top 2

Different than statistical findings!



### **Mitigation Strategies**

### **OVERVIEW OF KEY IDEAS**

Survey Recommendations

Chronic Disease Program

Stakeholder Partnerships

Rural Outreach



- Most Cases Carson City
- Statistically, Community Spread most common; H vs NH nearly tied
  - Household Spread most identified in survey
- Largest ethnic disparity for Household Spread
  - No evidence in total case counts but broken down
    - positve findingsEthnic disparity among
      - survey respondents



Thank You!

Questions?

(references available upon request)