COVID-19 AND DOWN SYNDROME T21RS SURVEY, REPORT MAY 27, 2020

QUESTIONS

What are the signs and symptoms among those hospitalized with COVID-19?

Do symptoms differ by age group?

What is the clinical outcome?

TAKING HOME MESSAGES

Monitor for the same symptoms as in the general population, plus nasal symptoms in younger patients with Down syndrome

Protect those over age 40: risk for fatality more common in middle-aged individuals

Younger individuals (< 20 yrs) do not often present with severe disease

More survey data are needed to confirm these conclusions

SURVEY PARTICIPANTS N = 349

SIGNS/SYMPTOMS OF COVID-19 IN DOWN SYNDROME

- Similar to general population: fever, cough and shortness of breath

- Nasal symptoms are more common

- Shortness of breath is associated with hospital admission

SYMPTOMS OF COVID-19 DIFFER BY AGE

- Three most common symptoms do not differ by age

- Nasal signs and sore throat are more often in the 0-19 yrs group

- Stomach symptoms and headache are more often in the 20-39 yrs group

Persons with Down syndrome who tested positive or showed symptoms of COVID-19

STUDY LIMITATIONS:

1. Surveys are based on one time point. Some people are still in hospital.

2. Health profile is based on those hospitalized in order to make the comparison to the general population. A later study will include both those staying at home and in hospital.

3. No data are available on whether those with Down syndrome are sent to the hospital at the same rate or for the same signs/symptoms. The criteria may or may not differ.

4. Although this is the largest sample to date, the numbers are still small and observations need to be confirmed.

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REFERENCES FOR COMPARISON GROUPS:


ACKNOWLEDGMENTS:

The Trisomy 21 Research Society (T21RS) COVID-19 Taskforce developed the survey, with the financial and dissemination support of Down Syndrome Affiliates in Action (DSAA), Down Syndrome Medical Interest Group-USA (DSMIG-USA), GiGi’s Playhouse, Jerome Lejeune Foundation, LuMind IDSC Foundation, Matthew Foundation, National Down Syndrome Society (NDSS), National Task Group on Intellectual Disabilities and Dementia Practices (NTG) and the endorsement of many international Down syndrome organizations.

CLINICAL OUTCOME OF COVID-19 IN HOSPITALIZED PATIENTS

- The proportion of deaths is similar to the general population

- The risk of fatal outcome is increased from age 40, earlier than the general population

- Males die more often than females, as in the general population

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5. As more surveys are completed, examination of existing co-occurring conditions can be examined as risks for clinical outcomes.

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