Mask use by Adults with Asthma in the Era of COVID-19

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Purpose

- Evidence that wearing masks greatly reduces the chance of becoming infected with COVID-19 is strongly supported.
- This cross-sectional study sought to determine:
- To what extent adults with asthma wear masks
- ☐ Types of masks worn
- ☐ Discomfort/problems encountered when wearing a mask
- Participant recommendations regarding mask wearing

Methods

- Online REDCap survey
- Participants: Adults with asthma who previously completed a survey & indicated willingness to participate in additional studies
- Data collected 11/2020- 2/2021
- Face Mask Use in Adults with Asthma survey included:
- Hours/day mask worn
- Type of mask worn
- Experiences wearing a mask
- Recommendations

Participants (N=501)

Female: 84.5% White: 89%

College graduate: 74%

History of Covid-19 infection:11.6%

Wear mask in public: 98.4%

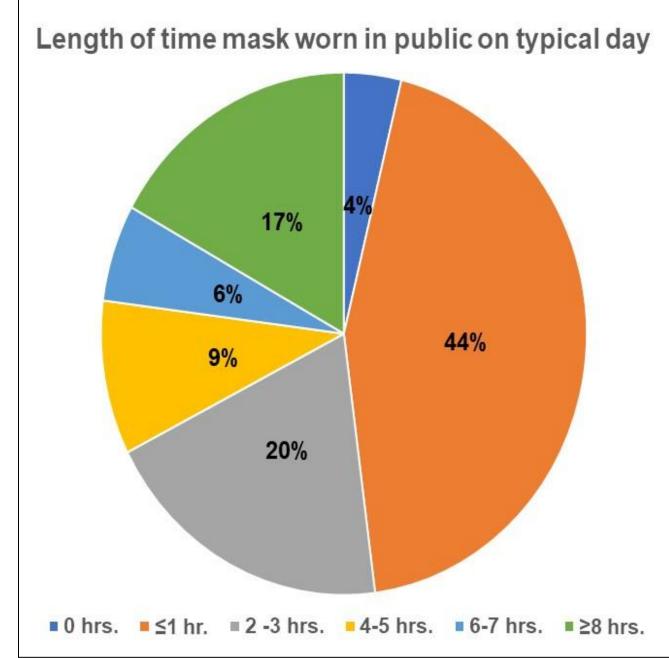
Asthma Control Test:

≥ 20: 66.5% ≤19: 33.5%

Types of mask usually worn

- Cloth with ≥2 layers: 65.5%
- ✓ Surgical/procedural: 43.9%
- ✓ Cloth with 1 layer: 23.4%
- ▶ N95 type: 12.6%
- ✔Bandana/neck fleece/gaiter: 3.4%

Results



Participant Recommendations

- "Wear a mask!"
- * "Take breaks if possible to be able to remove the mask in a safe area, to take some deep breaths, and clear the lungs and get fresher air"
- "Do your best to limit the time spent on those situations as much as you can."
- "Find one that fits well without being constricting. It may take experimentation to find the right one."
- * "Bring your inhaler with you in case you are struggling to catch your breath.
- "Educate yourself on the science behind mask effectiveness - it is highly motivating!"

Conclusions

- Adults with uncontrolled asthma reported having more discomfort and asthma-like symptoms when wearing a mask.
- Efforts are needed to assure the knowledge and means to secure the most effective masks are available to adults with asthma.
- Employers should be aware of the potential negative impact of wearing a mask for several hours and provide flexible schedules to allow for more breaks

