The Essentials of Performing Arts Medicine

A Conversation: What Do Science and Data Say About the Near -Term Future of Singing

Lucinda Halstead, MD

President-Elect, Performing Arts Medica Association

Medical Director

Evelyn Trammell Institute for Voice and Swallowing

Depts. of Otolaryngology-Head & Neck Surgery & Pediatrics

Medical University of South Carolina





Presenter Disclosure Information

LUCINDA HALSTEAD, MD

Financial Disclosure:

Nothing to Disclose





THE VOICE REVEALS THAT WHICH IS UNIQUE IN EACH OF US:

IT EMBODIES OUR SOUL!





Laryngology Visit Pre-COVID 19







Laryngology Visit Now

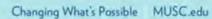
3-5% false negative on patient testing



15% risk of MD's in mid-upper 60's dying from the virus







Why?

- Aerosolization of viral particles
 - Many severe infections started in churches

Transmission of viral particles off surfaces

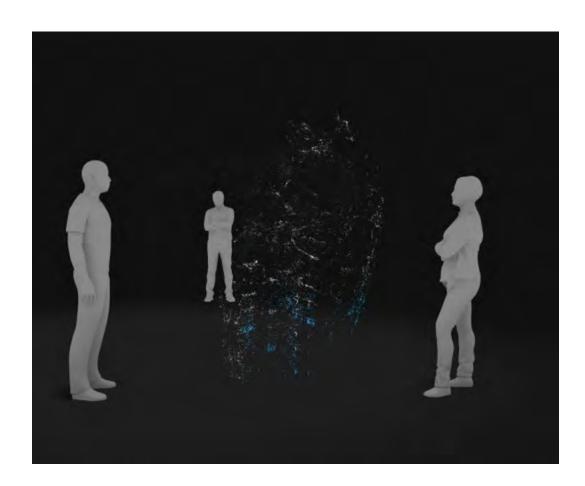








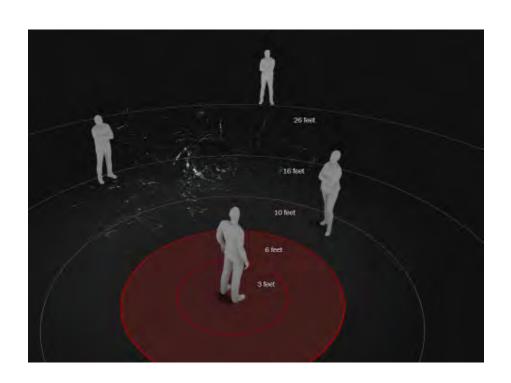
NY Times Interactive 3D Simulation







NY Times Interactive 3D Simulation









Keys To Reopening Safe Individual Lessons, Group Singing and Performances

- Wide-spread testing
 - PCR (Polymerase Chain Reaction) testing
 - 3-5% false negative at our institution
- Contact screening
- Possible use of Rapid Diagnostic Test
 - Not as sensitive as PCR test
 - Need to be symptomatic
 - Higher false negative
 - <u>NOT SAFE</u> for testing singing groups/choirs





Keys To Reopening Safe Individual Lessons, Group Singing and Performances

- Vaccine development
 - 18-24 months?
- New drug treatments
 - 6-12 months?
 - Overall efficacy?
- Social distancing until safe treatments or vaccine are developed
 - Masks, gloves





Return to Group Singing -Ideal

- Acceptance of risk by group/sponsor or both
- Screening criteria at the door
 - Home PCR test done at the door in private space
 - Symptom screening
 - Temperature checks < 99.4°F</p>
 - Pulse oximetry check
- Privacy issues





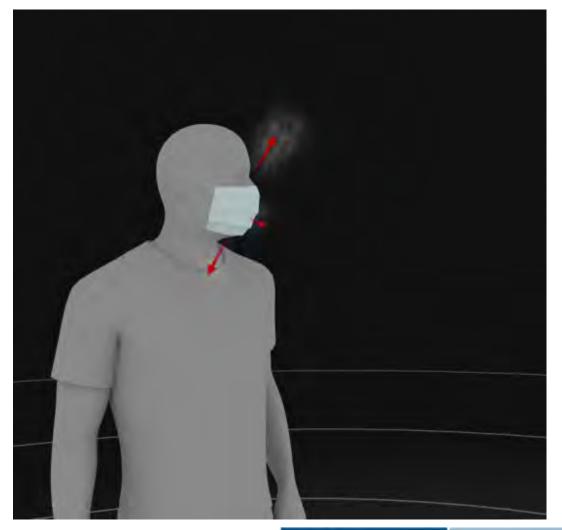
Return to Group Singing -High Risk

- Acceptance of risk by group/sponsor or both
- Screening criteria at the door
 - Symptom screening
 - Temperature checks < 99.4°F</p>
 - Pulse oximetry check
- Privacy issues





Barriers - None Currently Safe for Singing







If You Wore A Mask – N95 Only One

- Need N95 mask that is fit tested
 - Difficult to breathe due to resistance of material
 - Recirculation of breath
 - Some Decrease O2 levels with rebreathing
 - Increasing CO2 Headache!!
 - Hot
 - Could injure people with significant health issues
 - Asthma, COPD, Heart Disease





Other Barriers –DO NOT TRY

- Material that is not droplet proof
- Open at top, bottom or sides
- Spraying cloth with bleach or other disinfectant
- RISKS OF HYPOXIA WITH CLOSED SYSTEM





Be Patient - The Time Will Come







THANK YOU!

LUCINDA HALSTEAD, MD halstead@musc.edu











NY Times Interactive 3D Simulation

