THE UPS AND DOWNS OF TREATING RESPIRATORY DISEASE IN OUR ORANGUTAN MIAS





By: Cindy Cossaboon

History

- Born at the Toronto Zoo in 1983
- Transferred to the Calgary Zoo in 1989
- Came to Denver in 1997
 - Lived with Allie until 2004
 - Currently lives with Nias and Hesty



Health History

Intermittent Symptoms as far back as 1997

- Nasal discharge
- Dermatitis around throat sac
- Cough
- Congestion
- Diarrhea
- Lethargy



Dr. Hayley Murphy Presentation

- Types of Nebulizers
 - Droplet sizes
 - Speeds
 - Mesh vs. Ultrasonic Vibrating
- Cystic Fibrosis
- Contacting Pharmacologists and Pulmonologists



National Jewish Hospital

Dr. Jennifer Taylor-Cousar

 Assistant Professor, Departments of Internal Medicine and Pediatrics, Pulmonary Division, Associate Adult CF

Program Dir



National Jewish Hospital

Leslie Schamaun, RRT
Lead Respiratory Therapist

First Steps in Treatment

Holding for Nebulization



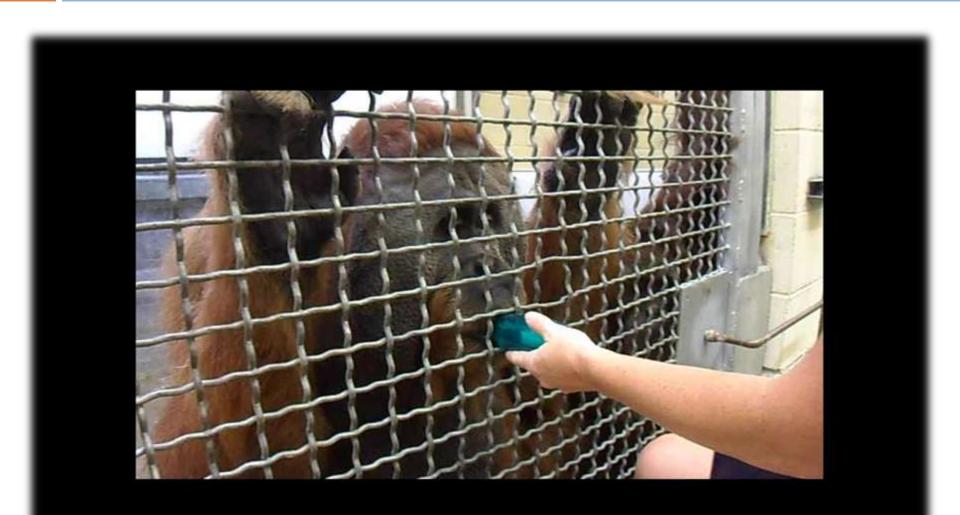
First Steps Continued

Learning how to blow into an object Whistle



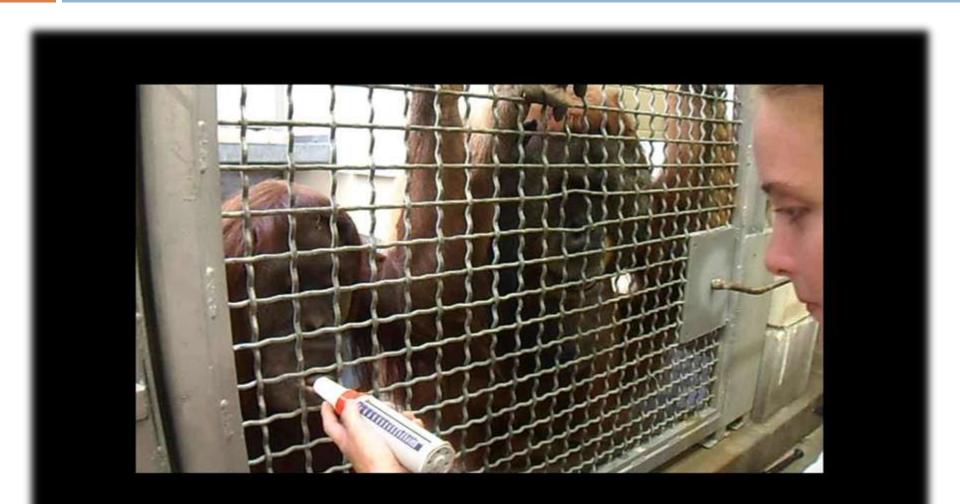
Accapella





Lung Capacity Spirometer

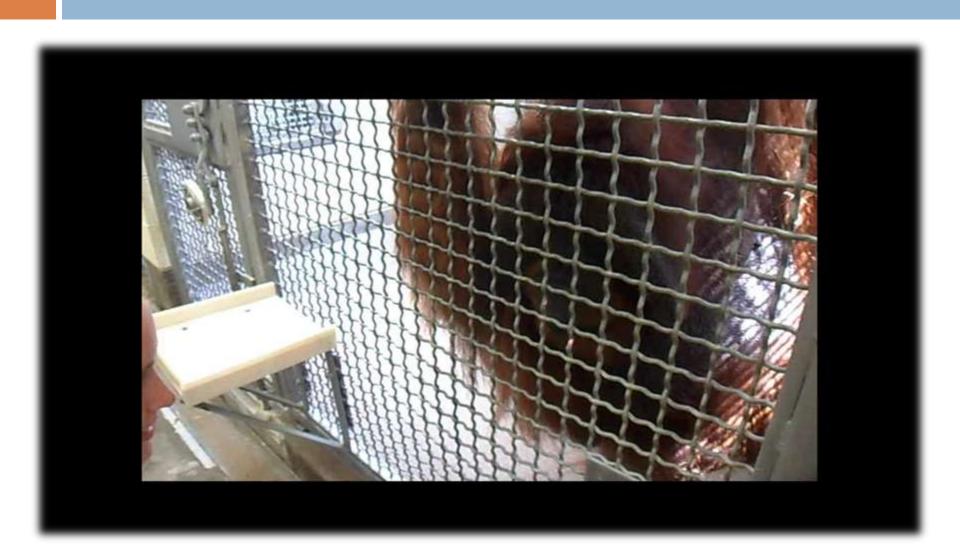




Spirometer







Drug Treatment

- Albuterol
- Saline
- Tobramycin/Colistimethate





Next Steps for Treatment

- Pneumococcal vaccine
- Stool sample for pancreatic function
- Chest and Sinus CT Scan
- Antibiotics every other month
- Nasal Scrapings with electron Microscope







National Jewish Research

- DNA analysis of Mias' DNA
 - Using primers for human CFTR
 - Designing some specific primers
 - Using blood from Nias and Hesty for comparison

THANK YOU!!