

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 Director



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



Extra



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!!