

# Lungtropolis™

Where Kids with Asthma Learn to Play



## Lungtropolis Works!

Children who played our Internet asthma game had better Asthma Control Test, knowledge and self-efficacy scores compared to controls in our randomized trial conducted online January-October 2011

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Developed by ORCAS in partnership with American Lung Association

### EVALUATION STUDY DESIGN

- National recruitment
- Intervention group: open access to Lungtropolis
- Control group: PDF copy of Krames asthma booklet
- 3 online assessments : baseline, 30-day, 45-day follow-up
- Developmentally appropriate children's assessments

### PARTICIPANTS

- N=298 child-parent pairs (596 participants)
- Intervention = 148 pairs; Control = 150 pairs
- Gender: 95.3% female
- Race: 73.% Caucasian, 17% African American
- Ethnicity: 10.2% Hispanic
- Education: 68.4 % some college or college grad
- No significant differences between intervention and control participants on demographic or baseline study outcomes

### RESULTS: CHILDREN

Children in the intervention group outperformed the control children

- Significantly better Asthma Control Test scores
- Significantly higher knowledge scores
- Significantly higher scores on self-efficacy measures

Program use: Children in the intervention group made an average of 2.7 visits to the Lungtropolis website and used the program an average of 1 hour 16 minutes each.

### RESULTS: PARENTS

- There were no significant differences between intervention parents and control parents on any of the measures.

For information about the research project and study results:

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