

MyInhaler

Inhaler Adornment Project

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Outline of Presentation

Context of Problem
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Context of the Problem

“What are we dealing with?”

Asthma

Asthma is an inflammatory disease of the lungs' airways that causes them to swell and narrow thus leading to wheezing, shortness of breath, coughing and chest tightness.

Facts

-Triggered by allergy-causing substances (animal hair, dust, mold), exercise, strong emotions, virus.

-According to the Center for Disease Control., in 2010, 1 in 11 children has asthma and 1 in 12 adults have asthma (18.7 million adults and 7 million children).

-Though it can be treated, it is still deadly-approximately 9 people die of asthma per day.

Inhalers

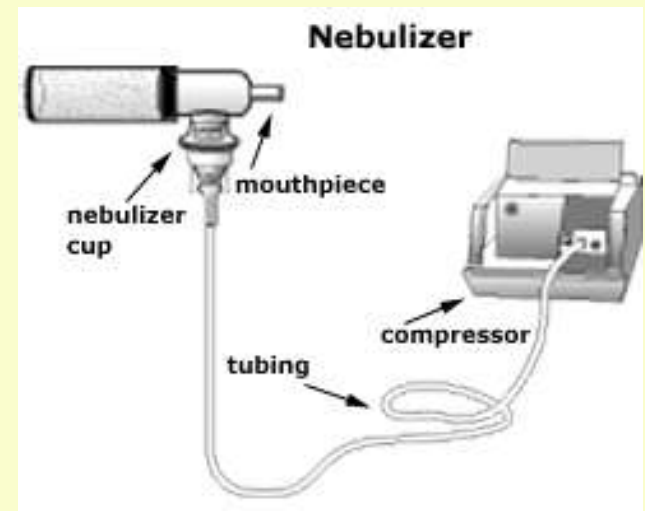
A handheld device (that can be used in tandem with other devices like a spacer) used to treat asthma. It administers the asthma medication directly to the lungs by having the user breathe in the pressurized vapour.

Types of Inhalers

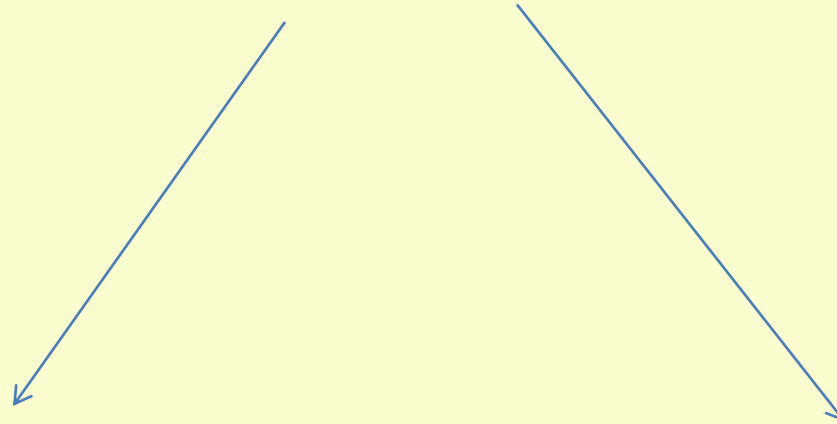
Metered Dose Inhalers (MDIs)

Dry Powder Inhalers (DPIs)

Nebulizers



Users Interviewed Thus Far



Children <12 and their
Parents

Users >12

Insights

“Issues that can be addressed”

Knowing how much medication is left

Convenience → Easy to forget or lose
→ Storage

Appearance → More important for younger users

Educational component → Parents
→ Children

Independence factor for younger users

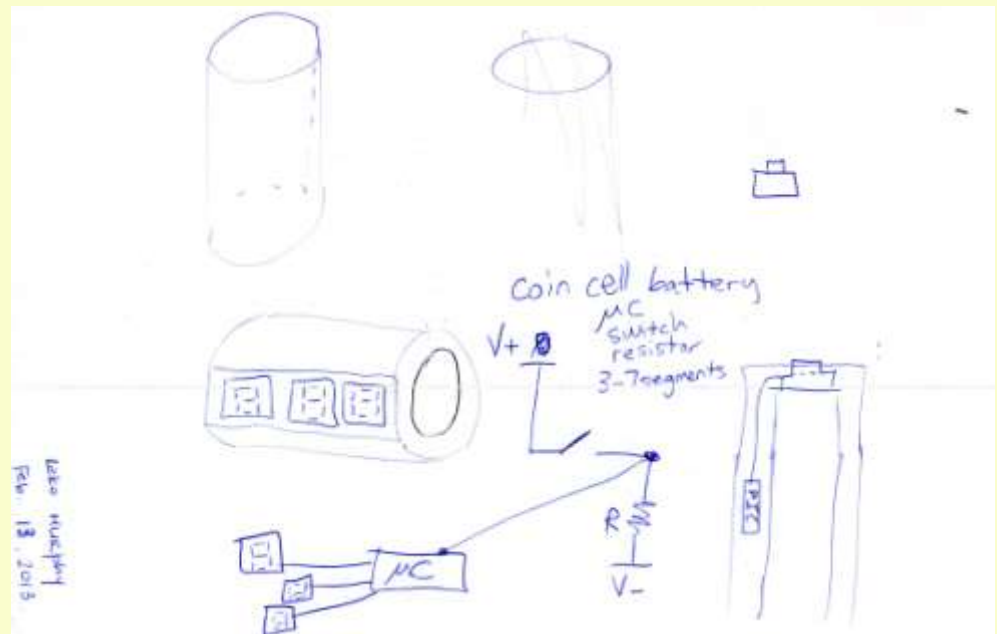
Defined Need

“Stakeholders need a reusable inhaler casing that keeps track of the number of puffs left while ensuring that the inhaler is handy and can be easily identified.”

Existing Market



Design Concepts



Thanks to Leko Murphy (PRL TA)

Proposed Shape of Inhaler



Moving Forward

Choose counter mechanism

Create CAD model of inhaler casing to be able to make silicone mold

Interview users again to get feedback on prototype

Thanks to:

Jules Sherman

Dave Jaffe

Interviewees: Zach, Heather and
Devon, Susie, Cassie

References

<http://www.webmd.com/asthma/guide/asthma-inhalers>

<http://www.webmd.com/asthma/default.htm>

http://www.cdc.gov/asthma/impacts_nation/AsthmaFactSheet.pdf