

# Endotracheal tube adaptor for administration of nebulized medications

**Client:** Dr. Mark E. Schroeder

**Team Members:** Ryan Childs (BSAC)  
Ozair Chaudhry (Communicator)  
Timothy Barry (BWIG)  
Evan Joyce (Leader)

**Date:** January 30 to February 6, 2009

## Problem Statement

The goal of this project is to develop an endotracheal tube adaptor that can be used to consistently deliver aerosolized medication to an anesthetized patient during surgery. Recent changes to the aerosolized medicine canisters due to environmental concerns over the propellant have rendered current adaptors ineffective. Our client would prefer an adaptor that either works with the patients Multi Dosed Inhaler (MDI) or directly with the new medication canister (Albuterol or Ipratropium).

## Last Week's Goals

- Assign team roles
- Contact and meet with client
- Begin preliminary research

## Summary of Accomplishments

- Assigned team roles
- Developed preliminary schedule
- Met with client and discussed the project specifications

## This Week's Goals

- Begin research on related patents, anesthesia circuit, and medical grade plastics
- Contact client for next meeting
- Begin brainstorming
- Develop PDS
- Start project website

## Project Difficulties...

### Activities

Ozair Chaudhry

1.30.2009	Team Meeting	2.00 hr
~~~~~	General research	2.00 hr
2.5.2009	SolidWorks Tutorial	2.50 hr
2.5.2009	Met with client	1.00 hr

Timothy Barry

1.30.2009	Team Meeting	2.00 hr
2.3.2009	General research	1.00 hr
2.3.2009	Website	1.00 hr
2.5.2009	SolidWorks Tutorial	2.50 hr
2.5.2009	Met with client	1.00 hr

Ryan Childs

1.25.2009	Preliminary research/patent searches	3.00 hr
1.30.2009	Team Meeting	2.00 hr
2.4.2009	Research on client questions	2.50 hr
2.5.2009	Met with client	1.00 hr
2.5.2009	SolidWorks Tutorial	2.50 hr
2.5.2009	General research	2.50 hr
2.6.2009	BSAC Meeting	1.00 hr

Evan Joyce

1.25.2009	Preliminary research/patent searches	1.00 hr
1.30.2009	Team Meeting	2.00 hr
2.4.2009	Research on anesthesia circuit	2.00 hr
2.5.2009	Met with client	1.00 hr
2.5.2009	SolidWorks Tutorial	2.50 hr

2.6.2009

Progress report

1.50 hr

Project Schedule

Tasks	January		February				March				April				May	
	23	30	6	13	20	27	6	13	20	27	3	10	17	24	1	8
Research and Development																
Research																
Brainstorm																
Develop Prelim. Designs																
Detail/Evaluate Designs																
Build Prototype																
Test Prototype																
Website		Timothy														

