

Bronchoalveolar Lavage Trap

Group 17

Client: Christopher Green, M.D.

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Team: Laura Zeitler (Team Leader)

Kim Kamer (BSAC)

Ali Johnson (BWIG)

Elise Larson (Communicator)

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Problem Statement:

In order to diagnose respiratory problems in immunosuppressed patients, bronchoalveolar lavage is used to obtain a bronchiole fluid sample. A bronchoscope is guided through the respiratory tract and wedged into a bronchiole, which is then flushed with saline solution. The solution is then extracted with a vacuum and accumulates in the sterile collection trap. In the current procedural setup, the lavage trap is free-hanging and unstable. Manipulation of the bronchoscope and surrounding movement can displace the trap resulting in loss of sample to the vacuum line. To prevent unnecessary expense and patient inconvenience from sample loss, a new trap needs to be developed.

Last Week's Goals

- Meet with client to determine expectations and budget
- Create PDS document
- Create Gantt chart

Summary of Accomplishments

- Ali has created the Website with all of the required materials.
- Elise has set up our next two client meetings in advance.
- Laura has called the clinical lab to inquire about specifications needed for intra-hospital transport of the sample.
- We have all contributed to creating the first PDS document based upon client and lab criteria. It has been added to the website.
- Everyone has been doing research individually on what types of products are already out on the market, and what types of designs in other engineering areas may help us with our specific project.
- All four of us met to have a group brainstorming session where we generated ideas and discussed which attributes we like in the designs
- Prepared materials for client meeting

This Week's Goals

- Meet with client on Monday, February 9th at 7:30 am.
- Continue with more specific research based on brainstorming session.
- Start to funnel top ideas and create multiple design matrices

Project Difficulties

The most difficult roadblock we have found is searching for the best way to sync all of our schedules at this point to find good meeting times with our client, advisor, and with each other. We have attempted to make this process easier by filling out an online survey that calculates the best time for us to meet.

Activities

Collaboration Group Activities

Date	Activity	Duration
1/27/09	Client Meeting	2 hours
1/30/09	PDS/Advisor Meeting	2 hours
2/5/09	Brainstorming Session	2 hours

Team Member	Date	Activity	Duration
Laura Zeitler	2/3/09	Prepared outline for progress report	1.5 hour
	2/3/09	Called clinical lab to inquire about desired design specifications	15 minutes
	2/3/09	Research and Brainstorm	1 hour
Kim Kamer	1/24/09	Research	2 hours
Ali Johnson	1/24/09	Brainstorming background information	15 minutes
	1/29/09	Brainstorming background information	15 minutes
	2/4/09	Brainstorming background information	1 hour
Elise Larson	1/31/09	Research	1 hour
	All Week	Correspondence with Cindy	30 Minutes

Expenses

Date	Item	Cost	Comments
N/A	N/A	0.00	No Expenses Yet

