

Title: Lung Tissue Chamber for the study of Asthma

Names: Lung Tissue group

Date: 11/23-11/30

Problem Statement: To design a working model to mimic the lung that incorporates living endothelial and epithelia cells in their natural orientations found within the lungs. The system will provide an effective model of the human lung to aide in the research of Asthmatic response to antigens and other lung diseases.

Restatement of Team Goals: As a group, to create and agree upon a design to effectively solve our client's problem. To develop the exact specifications of our designs: sizes, volumes, cell surface area, etc.

Accomplishments: We have developed a final design.

Team Goals: Build the final product. Complete final report and presentation poster.

Project Schedule: Met with clients twice. Beginning to formulate design possibilities. This will be the process for the next weeks. Choose or create a new workable design. Have group agree and develop a new final design. Build the product.

Difficulties: The machine shop in M.E. is very backed up with project orders. I will try the physical plant machine shop.

Activities: Megan: 2 hr report

Adam: 2 hr report

Eric: 1.5 hr report

Tom: 1.5 hr materials, 1.5 blood flow design

Kevin: 1 report

Andrea: 1.5 hr ordering materials, .75 Cad drawings

Rafael: 1.5 hr report

Barry: 1 hr. report