

Email Message

Good morning everyone,

Our action items for the next few days include 3D printing molds for the balloon, both life size (for realistic analysis) and scaled up (x2, for better visualization of prototype), exploring validation ideas, and producing the balloon itself with the molds. For validation, if we are unable to obtain a 3D model, we are exploring an idea of building our own model, with it currently centered around the possibility of using PDMS.

Have a great weekend!

Best,
Brian Dallesasse, Kyle Sachdev, Taylor Hughes

Project created on 06.09.2016 02:03.

Report for project Senior Design

Task created on 05.04.2017 19:12.

Group Meeting 4.5.17

No due date

All group members present

Task tags: *No tags*

* Meeting Minutes Created by Brian on 05.04.2017 19:25.

- Balloon mold
 - Taylor working on CAD drawing for that, will finish by tonight or tomorrow to send to Professor Widder to 3D print
 - print life size (10 mm diameter, 3-4 cm height) and scaled up for better visualization (x2)
 - scaled up version will obviously require more injected liquid from syringe, but our syringe from Dr. Paniello is 50 mL so it has enough for both
- Validation
 - In discussion w/ one of Dr. Paniello's other senior design groups to borrow the trachea model they are renting out from the biology department
 - Taylor also looking into building a model to replicate conditions of SGS, using PDMS
- Applied pressure measurement
 - pressure gauge attached to balloon dilator device received from Dr. Paniello
- Meet this weekend (Sunday) for initial device assembly