MEETING MINUTES

Topic: Client Meeting #3

Thursday, February 18th, 2021
2:15 – 3:15pm

Minutes recorded by __Dallany Segura____

Meeting called by ___Danny Castano_____

Attendees: __Timothy Becker, Omid Asgari, Daniel Castano and Dallany Segura_____

Please bring: ___N/A_____

Table 1. Record of meeting.

2:15 pm to 2:20 pm	**Discuss project progress** • Discussion led by team • We completed presentation 1 and are currently working on presentation 2	Zoom

2:20 pm to 3:00 pm	**Present concept generation**
	• Discussion led by team
	Dallany
	• Design #1: Stent at neck of aneurysm, balloon in vessel
	  ○ Stent should be moved to parent vessel because placing it at the neck could cause rupture
	• Design #2: Balloon-stent device placed at neck
	  ○ Device should be shifted to the parent vessel because the neck of the aneurysm is too fragile
	  ○ Don't add pressure to the aneurysm
	• Design #3: Two stents of varying porosity placed at the neck and vessel
	  ○ Remove the neck part
	  ○ Stent porosity may be beneficial for liquid embolic treatment
	• Design #4: Balloon-stent with magnet
	  ○ Researchers trying to find magnetic solutions, but a magnet would not help extract blood within aneurysm
	• Design #5: Honeycomb mesh with hole at neck
	  ○ Difficult to line up the hole with the neck
	  ○ Possibility of placing microcatheter in the mesh
	• Design #6: Stent in vessel, two balloons in neck
	  ○ Redraw into parent vessel
	Danny
	• Design #1: Balloon within aneurysm
	  ○ Don't want to increase pressure
	• Design #2: Patch across neck
		Zoom

	○ Not sure how it would stick to vessel ○ Placement would be difficult • Design #3: Two balloon-stent ○ Good idea, but it would be best to have one surface at the neck • Design #4: Plug ○ Same as design #2 • Design #5: Y-shaped balloon ○ Client really liked this idea ○ Research more	
3:00 pm to end	**Q&A** • Device must have a diameter that is 53-55% of the vessel diameter to have enough blood flow • Device should be made for one vessel and then scaled in the future • Research FFR and FPR • Best software to use is SolidWorks • Budget is $2000, but flexible ○ Most stuff can be done in BDL ○ Manufacturing cost with POBA medical	Zoom

Table 2. Tasks Assigned.

Task	**Person Assigned**	**Due Date**	**Date Complete**
Presentation 2: Gantt chart, black box model, problem decomposition model, Pugh chart	Dallany	02/21/21 11:59pm	02/21/21 11:59pm
Presentation 2: CAD, bill of materials, decision matrix	Danny	02/21/21 11:59pm	02/21/21 11:59pm
Add stuff to preliminary report	Team	03/05/21 11:59pm	