**Group Progress Report**

**Group**: Team Ureter (Katie, Deepti, Yasha)

**Project**: Ureters

**Date:** 10/22/17

**Goals for the past week** (copied from last progress report)

Meet with Dr. Palmeri on ultrasound feasibility discussion

Meet with Dr Sharifi to update him on progress, discuss using ultrasound

**For each goal above, comment on your progress**:

Palmeri: essentially endorsed pursuing a pressure sensor with our resources. Clarified goal of the semester, to develop a model that simulates the change of pressure from the bladder wall. Expressed resources: Matt brown, peristaltic generator.

Sharifi: Meeting is on Monday (10/23); showing him materials received from matt brown (tubing, pressure sensor, machine that can control input of pressure via syringe); asking him if he has any available pressure traducer catheters/any insight.

**Goals for this week**:

* Talk with sharifi to get his point of view about how to model the environment
* Work with palmeri/matt brown to see if pressure transducers actually work (so we don’t break the equipment)
* Discuss how to achieve a KNOWN pressure environment to test pressure transducer in

**Are there any difficulties with which you need assistance?**

We essentially have two old (1980s) brands of pressure transducer catheters that Matt Brown found. They could work/they could not work. There is no machine interface or schematic/pin read out of the devices online, so we need to figure out how to use the catheters. We believe we have found a similar pin readout to another series of catheters online, where the pressure transducer uses a wheatstone bridge. We will need to discuss in large how to:

1. Test to see if the pressure transducer works (source voltage, location of pin readouts)
2. Test pressure transducer in a known pressure environment—need a procedure, do we need a manometer?
3. If all these steps work, extrapolate data to convert voltages to pressure read outs

**Other comments:**

See above, any suggestions of how to set up a controlled pressure environment would be useful.