

Endotracheal Tube Securing Device

Client: Dr. Lester Proctor

Team

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Problem Statement

Dr. Lester Proctor, a professor of anesthesiology and pediatrics for the UW medical school, has expressed the need for a pressure indicator which would be used for endotracheal tubes. Over inflation of the cuff on an ET tube can cause tracheal damage, especially in children, and Dr. Proctor is looking for a qualitative indicator which would be attached to the ET tube and would give a consistent reading on the pressure in the inflated cuff.

Last Week's Goals

- buy more parts
- if everything comes in, begin construction

Summary of Accomplishments

- saw several intubations
- questioned medical staff on ETT
- received more parts
- began construction

This Week's Goals

- figure out what to do with spring problem
- build more of our prototype

Difficulties

When going in to see intubations at the hospital, we got there around 6:30 am, but we did not see Doctor Proctor until about 7 am. It would have been nice to get that extra half hour of sleep back.

We started construction of our prototype by cutting out some tubing and trying to fit parts together to see how things might look. We are thinking we will not be able to get our prototype down to as small as we wish because of the parts we are limited to and our lack of expertise in machining.

