

## Weekly Report

Date: 10/8/2012

Project Name: Infant Respiratory Monitor

Group Number: 11

Group Members: Sean Ermer, Tim Lau, Leo Li

**Current status of project:**

We have begun researching into potentially novel methods to monitor the infant's respiration while maintaining minimal invasiveness on the infant.

**Work completed in the last week:**

Last week, we met to brainstorm and discuss one method that we have devised. This plan involves utilizing faraday's law to create a moving magnetic field and then to use coils to observe the movement of the infant's chest on a magnetic field gradient. This will generate a differential electromotive force in time that we can use to determine whether or not the infant is breathing.

**Work planned for next week:**

This upcoming week we plan on meeting to flush out this potential design. After we have looked in full detail how this design might work, we plan to devise yet another method for monitoring the infant's respiration.

**Anything needed from client or TA or instructor to continue work:**

None.