Chapter 6 – Merging Laryngeal Studies Data

# Problem

A continuous laryngoscopy during exercise studies is required for studying unexplained hypoxemia and diagnosing upper airway problems during exercise.

These studies are carried out by Dr James Hull at Royal Brompton Hospital.

During the studies, there are

1. One video display from the laryngoscope
2. One video display for exercise monitoring
3. One audio input from a microphone

The problems with the set up are:

1. Data are independently displayed

2. Data are independently stored in different systems

3. Data are independently retrieved for post processing analysis

4. Data are don’t synchronised in time

# Objectives

A proposed solution will be to have one system that will

1. Merge all the data

2. Display all the data on screen

3. Store all the data simultaneously

4. Automatically synchronise the data in time.

# Method

Later ☺

# Result

Later ☺

# Conclusion

The problems with the clinical set up are:

1. Data are independently displayed.
2. Data are independently stored in different systems
3. Data are independently retrieved for post processing analysis
4. Data are don’t synchronised in time.

The proposed system design can:

1. Data can be displayed on one screen.
2. Data are stored on one system
3. Data can be retrieved easily for post processing analysis.
4. Data can be easily synchronised in time