Clinical Instrument Case Study

This project involves a case study of a particular type of clinical instrument. You are to choose a particular type of instrument and research it to the extent of obtaining literature from several manufactures of that instrument. Pretend that you are a clinical engineer and are asked to come up with the right model of that particular instrument for your hospital. You will then give an oral presentation and submit a written report detailing the following:

1. General working principles of the instrument.

2. For each manufacturer, describe:
   
   (a) Features of each particular model.
   (b) Advantages and disadvantages of each model.
   (c) Cost of instrument to the hospital, cost of a typical test to the patient.
   (d) Specifications (i.e. leakage current, sensitivity, error, etc.)

You should then determine which instrument would be most appropriate for your hospital. Your report and presentation should include pictures of the actual models (use overhead slides for presentations), block diagrams, etc. Each oral presentation should last about 15 minutes. The reports should be anywhere from 5 to 10 pages in length.