An interactive web-based biomedical informatics database has been developed to produce presentations that will help pediatric orthopedic surgeons educate their patients on how to cope with and manage their conditions. These presentations will provide patients and their families with the necessary information to allow for a complete recovery of the patient while minimizing complications due to mis-interpreted follow-up care. A personalized presentation will be produced based upon input from the database involving the individual needs and interests of the patient. Initially, a conceptual schema was constructed that mapped the relationships between the various concepts to appear on the presentation pages. A MySQL database architecture is being designed based on the conceptual schema (see William Kunkle’s poster). Finally, an initial design of the web page templates was developed in HTML.