Notes:

a. This bibliography corresponds roughly to the topics of the didactic portion of the workshop. The list of references included here is meant to provide broad coverage of each topic. It is not a required reading list for the workshop. The references in each section are listed in reverse chronological order of publication.

b. A small set of papers is highlighted as “required reading”. Students are urged to familiarize themselves with this material in advance of the workshop.

c. All students are urged to refresh their command of biostatistics concepts before coming to Phoenix. The bibliography lists two handy sources for material on basic biostatistics:

   I. The text by Dawson and Trapp (see D1 below): Chapters 4-6 present basic material you need to know. It will also be useful to have some familiarity with concepts from correlation and regression analysis (Ch 8) and survival analysis (Ch 9).


A. Required reading, in advance of the workshop

   http://radiology.rsna.org/content/226/1/24.long

   http://radiology.rsna.org/content/175/2/571.long


   http://www.ajronline.org/cgi/reprint/168/1/3

   http://jama.ama-assn.org/cgi/content/full/283/20/2701

B. Diagnostic Imaging Evaluation: General


C. Introduction to Clinical Trials


D. Introduction to Biostatistics


E. Statistical Methods for Diagnostic Test Evaluation: General

Textbooks, Chapters, Tutorials


F. Statistical Methods for Diagnostic Test Evaluation: Special topics

F1. Biases and Their Control


F2. Predictive Value of Tests

F3. Meta Analysis of Diagnostic Accuracy Studies


G. Quality of Life, Patient Satisfaction, Health Care Utilization Outcomes


H. Imaging as a Measure of Therapeutic Response


I. Imaging as a Predictor of Therapeutic Response


J. Imaging in clinical studies


K. Screening Studies: Methods


L. Modeling for the Assessment of Diagnostic and Screening Modalities


M. Medical Ethics