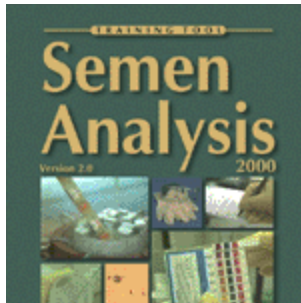


Reproductive Educational Resources provides training and educational tools for clinical laboratory science and reproductive laboratory science.

Products:



The Semen Analysis Training Tool is an interactive, self-paced CD-ROM which prepares the clinical laboratory scientist to perform standardized comprehensive semen to accurately evaluate male fertility. A review published in *ADVANCE for Medical Laboratory Professionals* (Volume 11, # 15, July 26, 1999) described the CD-Rom as "...an excellent resource for clinical laboratory professionals..... that may be used as a training tool, a mechanism for continuing education, a competency tool or a method of review."

Expert Author and Development Teams:

Authors are reproductive biologists with extensive experience in clinical andrology, including andrology laboratory supervision.

Doris J. Baker, Ph.D.
HCLD(ABB), MT(ASCP), CLS(NCA)

Dr. Baker is trained in reproductive biology, holds credentials in clinical laboratory science and is certified as a clinical laboratory director. As associate professor in the Division of Clinical Laboratory Science at the University of Kentucky, Lexington, KY, Dr. Baker has developed the first formal education program in Reproductive Laboratory Science in the United States.

Jeannine Witmyer, Ph.D.

Dr. Witmyer is Chief Andrologist and Supervisor of Gamete and Embryo Cryopreservation at Boston IVF, Brookline, MA. As a former supervisor of andrology at Old Dominion University and Eastern Virginia Medical School, Dr. Witmyer was a member of the team responsible for the first birth by in vitro fertilization in the U.S.

The Semen Analysis Training Tool was developed at the University of Kentucky. Software was created by an interactive multimedia development team: instructional designers, multimedia programmers, and interactive media specialists. Semen Analysis Training Tool 2000 was revised by Borchyi Lin.

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The **Semen Analysis Training Tool** provides self-paced, interactive computer training for preparing the clinical laboratory scientist to perform a comprehensive semen analysis acceptable for fertility evaluation.

Module Components:

- Semen Physiology
- 1. Ejaculatory Process
- 2. Anatomy/Physiology
- 3. Spermatogenesis
- 4. Andrology Terms
- Patient Preparation
- Semen Specimen Collection
- Accession
- Macroscopic Examination
- 1. Coagulation
- 2. Liquefaction
- 3. Volume
- 4. Viscosity
- 5. Appearance
- 6. Odor
- 7. pH

Comprehensive Instruction based on WHO 99 protocols:

- Step-by-step procedures from patient
- Instruction through microscopic examinations
- Calculations performed
- Strict Criteria Morphology instruction for both Basic and Complete protocols
- Quality controls examples
- Reference ranges
- Abnormal values, troubleshooting logic and investigative actions explained

Interactive Instruction:

- Self-contained course modules for self-paced instructions
- Program navigation reinforces step-by-step procedures
- Objectives clearly outlined
- Simulated laboratory environment and equipment allows students to practice performing tests and standardized procedures with immediate feedback and retraining.
- Competency checks with immediate feedback for mastery and reteaching

Learner Tracking:

- Log-in with unique ID and password
- Resume program from last completed section
- Detailed performance reports for each learner
- Tracks length of each session
- Pass/fail status available
- “Supervisors Only” access to program and performance reports

Used For:

- Continuing education
- Competency Testing
- Adjunct training for technologists in andrology laboratories
- Microscopic Examinations
- 1. Initial assessment of quality
- 2. Motility (quantified)
- 3. Agglutination
- 4. Vitality
- 5. Sperm concentration and total sperm count
- 6. Strict Criteria Sperm Morphology
 - Complete
 - Basic
- 7. Round cell assessment
- Comprehensive final exam
- Physician’s report
- Appendices
- 1. Printable worksheets, report forms and patient instruction sheets
- 2. Andrology laboratory safety
- 3. Alternative methods
- 4. Troubleshooting procedures
- 5. Andrology stains; enzymes, buffers
- 6. Formulas and calculations
- 7. Key vendor and product resources
- 8. Procedure for post-vasectomy specimens

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