

Blood Typing Trainer



EXHIBIT FACT SHEET

The Blood Typing Trainer (BTT) is a low cost proof-of-concept development effort focused on raising user accuracy when using the Eldon Blood Typing Kit.

Currently, Navy Medical Research Unit-San Antonio (NAMRU-SA) trains Navy personnel on using the Eldon Blood Typing Kit. Experience has shown user accuracy success rates in the mid 80% range when conducting a blood type analysis using the kit. Various demographics were involved in the study with little effect on the accuracy rates. NAMRU desired a training mechanism that would raise the accuracy percentage to the high 90's and looked into various ways to accomplish this. One of the concepts they explored was a Computer-Based Trainer (CBT).

The Blood Typing CBT was developed by the Naval Air Warfare Center Training Systems Division (NAWCTSD) Concept Development and Integration Laboratory along with personnel from the Advanced Modeling and Simulation Branch. The CBT is a Flash-based application that provides interaction with, and an animation of, the Eldon Blood Typing Kit – designed to run in a browser.

The CBT follows an instructional strategy that utilizes a tutorial/scenario-based approach. It focuses on addressing NAMRU-SA-identified common failure points when using the kit. The trainee works through the tutorial and finishes with a quiz. Trainees have to accurately blood type various virtual patients and their results are presented to them, again, with a major focus on feedback where critical mistakes are made. Users are presented with multiple patients, randomized blood types, and time-based scenarios that help reinforce adherence to standard operating procedures.



For further information on this exhibit, or on business opportunities with NAWCTSD, please contact our Business Support Team by telephone at (407) 380-4903, by e-mail at orlo_businesssupportteam@navy.mil, or by mail at Business Support Team, NAWCTSD, 12350 Research Parkway, Orlando, FL 32826.