Radiation assessment software beta testing begins

The First-responders Radiological Assessment Triage software for Windows (WinFRAT), launched in March 2011, enables radiological and nuclear emergency response professionals to triage suspected casualties according to recognized assessment and treatment principles. WinFRAT, which can be loaded onto computers running XP or higher, collects, records, and assesses data regarding radiation dose exposure.

With minimal text entry, WinFRAT accepts exposure signs and symptoms, blood lymphocyte counts, and dosimetry data. It can assess the multiparameter triage dose or the probability of exposure without an assigned dose, and it can indicate there is no evidence of overexposure. In addition, it generates dose-specific messages addressing reliability and diagnostic information, hospitalization estimations, and mortality projections.

WinFRAT is one of several tools being developed for a deployable multiparameter biodosimetry system that includes AFRRI's Biodosimetry Assessment Tool software for laptops, FRAT for handhelds, standard operating protocols, and medical data recording forms.

Be a WinFRAT Tester

To volunteer to participate in the WinFRAT prototype beta testing, contact the BAT project manager listed on this brochure's back panel.

Get WinFRAT

Request WinFRAT online
AFRRI Web site
www.usuhs.edu/afrri/outreach/request.htm

Receive WinFRAT at the MEIR Course
AFRRI Medical Effects of Ionizing Radiation Course
www.usuhs.edu/afrri/outreach/meir/meir.htm

Find other resources

Medical/operational guides at
www.usuhs.edu/afrri/outreach/guidance.htm

- Medical Management of Radiological Casualties Handbook
- Emergency Radiation Medicine Response, AFRRI Pocket Guide

Biodosimetry tools at
www.usuhs.edu/afrri/outreach/biodostools.htm

- BAT—Biodosimetry Assessment Tool
- AFRRI Adult/Pediatric Field Medical Record
- AFRRI Biodosimetry Worksheet
- Radiocesium RDD Patient Initial Contact Worksheet

Contact project manager

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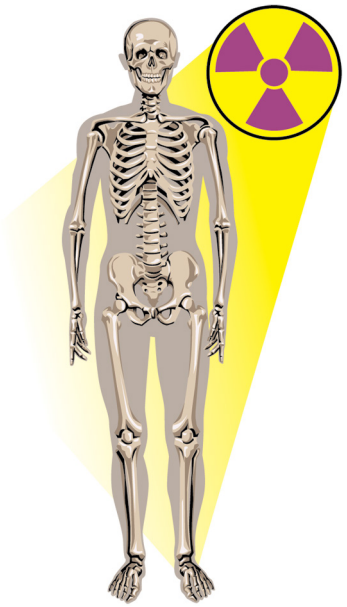
Armed Forces Radiobiology Research Institute

First-responders Radiological Assessment Triage

for Windows

Prototype version 0.7.6.0 beta for federal health-care providers responsible for the management of radiation casualties to rapidly identify exposed individuals

CHALLENGES

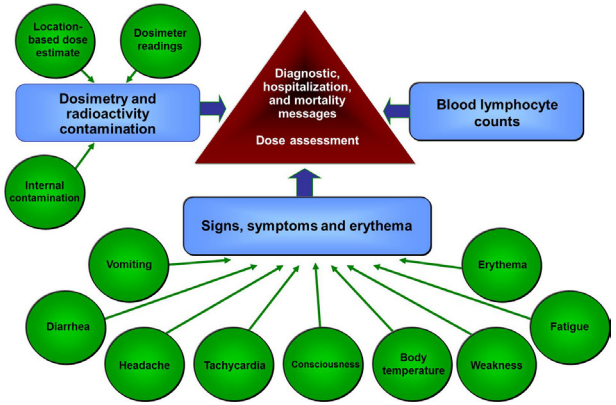


- Responders need to differentiate between the concerned public and exposed individuals for appropriate use of medical resources.
- Responders need to perform and record exposure assessments for each suspected exposed individual.
- No single assay is sufficient for all potential radiation exposure complex scenarios involving mass casualties.
- Multiple bioassay and integrated approach is required for triage, clinical, and definitive radiation biodosimetry.

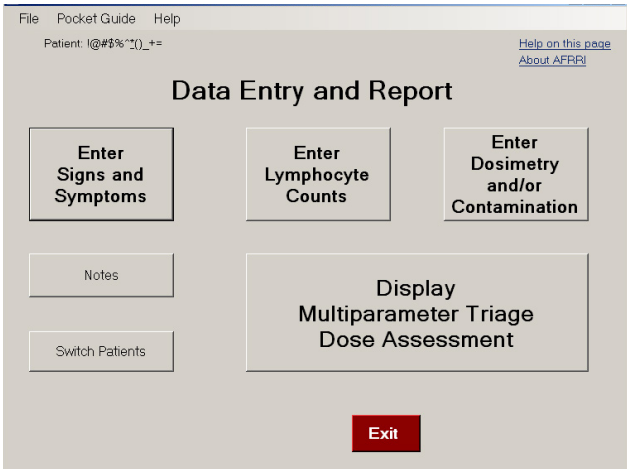
The WinFRAT program is NOT a substitute for treatment decisions by physicians and other trained health-care professionals.

SOLUTION

Software for integrated multiparameter biodosimetry for dose estimation and triage



- Real-time recording of diagnostic information:
  1. Prodromal signs and symptoms
  2. Blood lymphocyte counts
  3. Physical dosimetry
- Based on initial or prodromal features of AFRRI's Pocket Guide



BENEFITS

- Permits first responders to quickly triage suspected radiation casualties
- Convenient minimal text entry of prodromal symptoms, lymphocyte counts, and dosimetry
- Multiparameter triage dose prediction (expert consensus weighting factors)
- Additional output of triage dose-specific messages
- Expected hospitalization and mortality notification
- Contains digital copy of AFRRI's Pocket Guide—Emergency Radiation Medicine Response