

OTHER APPLICATIONS

Key references and websites

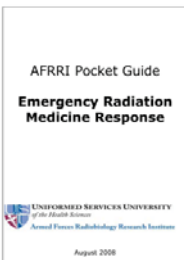
AFRRI (2003) Medical Management of Radiological Casualties Handbook, Second Edition. Bethesda, MD: Armed Forces Radiobiology Research Institute.

Koenig K, et al. (2005) Medical Treatment of Radiobiological Casualties: Current Concepts. Ann Emerg Med. 45(1): 543-52

Wasilenko J, et al. (2004) Medical Management of the Acute Radiation Syndrome: Recommendations of the Strategic National Stockpile Radiation Working Group. Ann Intern Med. 140:1037-51.

<http://www.afrrri.usuhs.mil>
<http://www.afrrri.usuhs.mil/outreach/guidance.htm>
<http://www.afrrri.usuhs.mil>

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Cleared for public release; distribution unlimited



Includes a digital copy of AFRRRI's Pocket Guide—Emergency Radiation Medicine Guide

Recommended by AFRRRI Military Medical Operations (MMO)



PLANNED

Biodosimetry integration into Armed Forces Health Longitudinal Technology Application (AHLTA)



GLOBAL INFORMATION
for **QUALITY CARE**

Order from the National Technical Information Service
<http://www.ntis.gov/products/>



HOW TO GET FRAT



Attend the Medical Effects of Ionizing Radiation (MEIR) course offered by AFRRRI
<http://www.afrrri.usuhs.mil/outreach/meir/meir.htm>



Request FRAT online
<http://www.afrrri.usuhs.mil/outreach/request.htm>

First-responder Radiological Triage (FRAT) v. 1.0

A tool for federal healthcare providers responsible for the management of radiation casualties to rapidly identify exposed individuals



Contact information:
AFRRRI

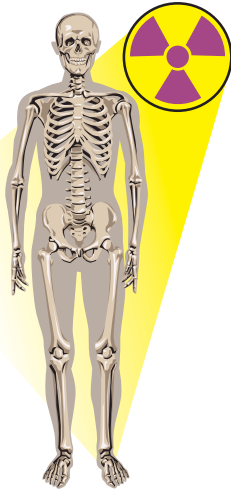
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PROBLEM

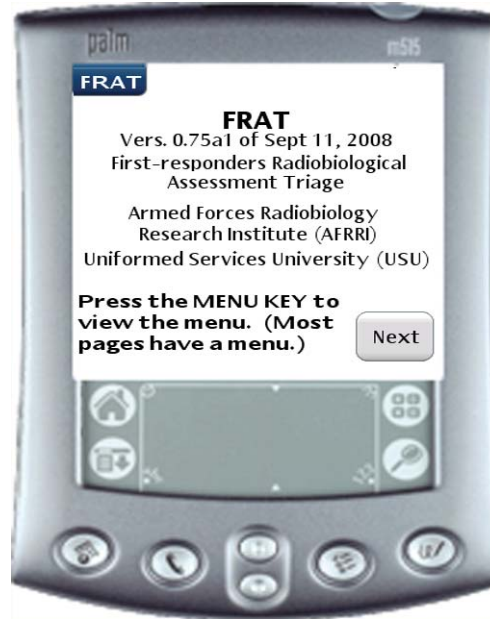


- Responders need to differentiate between the concerned public and exposed individuals for appropriate use of medical resources.
- Responders need to perform and record exposure assessments for each suspected exposed individual.
- No single assay is sufficient for all complex potential radiation exposure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

The FRAT program is NOT a substitute for treatment decisions by physicians and other trained healthcare professionals.

SOLUTION

Software program for multiparameter dose estimation and data recording.



Dosimetry/Contamination

Patient: MEIR, Scenario, 1
Select Y=Yes, N=No, ?=Unknown

- Does the patient have:
- Y N ?
 - Y N ?

Signs Symptoms & Erythema

Select Y=Yes, N=No, ?=Unknown

- | | |
|--|--|
| <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> ? <input type="checkbox"/> Vomiting | <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> ? <input type="checkbox"/> Weakness |
| <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> ? <input type="checkbox"/> Diarrhea | <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> ? <input type="checkbox"/> Fatigue |
| <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> ? <input type="checkbox"/> Headache | <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> ? <input type="checkbox"/> Erythema |
| <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> ? <input type="checkbox"/> Tachycardia | |
| <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> ? <input type="checkbox"/> Impaired Consciousness | |
| <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> ? <input type="checkbox"/> Elevated Body Temp | |

Bold symptoms have a second page.

Blood

Patient: MEIR, Scenario, 1

Lymphocyte Counts

#	Hours post exposure	Count (E+09/L)
1	19.00	.86
2	24.00	.70
3	48.00	.50
4		
5		

BENEFITS

- Permits first responders to quickly triage suspected radiation casualties.
- Convenient minimal text entry of 3 categories: prodromal, lymphocyte and dosimetry.
- Multi-parameter triage dose prediction (expert consensus weighing factors).
- Additional output of triage dose-specific messages.
- Contains digital copy of AFRI's Pocket Guide—Emergency Radiation Medicine Response.

