




ADVISORY COMMITTEE  
ON THE MEDICAL  
USES OF ISOTOPES

UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
WASHINGTON, D.C. 20555-0001

MEMORANDUM TO: Charles L. Miller, PhD, Director  
Industrial and Medical Nuclear Safety  
Nuclear Materials Safety and Safeguards

FROM: Leon S. Malmud, MD, Chairman   
Dose Reconstruction Subcommittee  
Advisory Committee on the Medical Uses of Isotopes

DATE: May 14, 2004

SUBJECT: TRANSMITTAL OF THE ACMUI DOSE  
RECONSTRUCTION SUBCOMMITTEE REPORT TO  
NRC STAFF

On January 29, 2004, Nuclear Regulatory Commission (NRC) staff requested, under the direction of the Commission, that the Advisory Committee on the Medical Uses of Isotopes (ACMUI) perform an independent evaluation of the NRC staff's method to reconstruct an overdose of radiation to a member of the public, who received the overdose at St. Joseph Mercy Hospital in Ann Arbor, Michigan. The Commission instructed this action because of assertions by Carol Marcus, MD, and Jeffry Siegel, PhD, who claimed that the NRC's dose reconstruction method was overly conservative in this case.

In its charter, the ACMUI's Dose Reconstruction Subcommittee (DRS) was asked to prepare independent views of the evaluation of radiation exposure the daughter received. The DRS was specifically requested to evaluate the approach to the dose reconstruction taken by the NRC, as well as the critique of the inspection report prepared by Drs. Carol Marcus and Jeffry Siegel. In preparing its report, the DRS was requested to indicate, for each aspect of the dose reconstruction and the Marcus/Siegel critique, whether it agrees or not with the evaluations and representations presented, and why.

The ACMUI's DRS has performed its independent review and is now submitting to the NRC staff a report of its findings. See attached.

Attachment: ACMUI DRS Report