Subject: Procedure for Web-Based Dose Calculator for Radiation

Procedure:
This procedure provides Investigators with guidance on the use of the web-based calculation for radiation dose as applied to its use in research.

I. Accessing the Dose Calculator.
   A link to the radiation dose calculator is provided on the HRPP Website at http://www.mc.vanderbilt.edu/irb.

II. Function.
    A. With the calculator open, the following steps should be completed to accurately obtain calculations and consent form language for the radiation procedure(s) utilized for research purposes.
       1. Radiographic procedures.
          a. The Investigator should select the radiographic procedures per protocol from the provided boxes.
          b. To the right of the list, the total number of procedures performed should be identified. For example: In a study involving 3 chest x-rays and 2 DEXA whole body scans, the Investigator should enter in the procedure box “Chest X-rays (PA +Lat)” and enter “3” in the “N:” box. In the second scroll box, “DEXA Prodigy whole body cans” should be selected and “2” entered in the box to the right.
       2. Nuclear medicine scans.
          a. A list of nuclear medicine scans is provided. The Investigator may select one to two different nuclear medicine scans per protocol in the boxes provided.
          b. The activity (mCi) will be inserted to the right of the selected scan.
       3. Calculation.
          a. After all procedures are selected and the number of procedures or the activity is indicated, the Investigator should select “OK.” The information will be processed.
          b. The calculated number will appear in the text box labeled “Organ Doses.”
          c. The first section of numbers corresponds with the chart in the IRB application for either Radiographic Procedures or Nuclear Medicine Scans.
          d. The second section of numbers represents the total combination of Radiographic Procedures and Nuclear Medicine Scans.
          e. All numbers, including the individual organ exposures, should be included in the materials for review.
    B. Consent language.
       1. The consent form language recommended for the procedures selected
will appear in a separate text box below the dose calculations. This text should be inserted into the consent form under “Risks to subjects.”

2. If the dosing for the procedures is below 10mrem, the text box will indicate that consent language is not needed for the procedures selected.