



"Piskura, Deborah"  
 <Deborah.Piskura@nrc.gov>  
 02/16/2010 02:49 PM

To NUCLEAR MATERIAL EVENTS DATABASE  
 <NMED@inl.gov>  
 cc  
 bcc

Subject RE: Information request for NMED Item 090748

*-Replied stating that we had the estimated dose information.*

Dear Dante:

I am so sorry to be getting back to so late with the info you requested!

Did the patient receive dose (in rad) due to the I-131 residing in the feeding tube for several days prior to the tube being replaced (9/21 through 9/25/2009)? **that is correct**

If you know how many rad the thyroid was prescribed and given that would be great. **This is more difficult to answer because in nuclear medicine, the physician prescribes a dosage in activity not a dose. There is a rule of thumb that for every mCi of I-131, a dose of \_\_\_ is delivered to the thyroid. But I do not remember this conversion. Besides, it would not apply here because this patient does not have a thyroid. Therefore, I cannot provide you a dose value to the metastatic tissue. To use the physician's words, he does not have a particular dose in mind, he just wants to blast the tissue.**

Please feel free to contact me for additional info on this case. Sorry I could not be more specific.

Debbie Piskura  
 Health Physicist  
 US NRC Region III  
 Materials Inspection Branch  
 630-829-9867

*166 mCi = 6142 MBq*

*1.13 mSv/hr for 1 MBq = 614 rem/hr.*

**From:** Dante C Huntsman [mailto:Dante.Huntsman@inl.gov] **On Behalf Of** NUCLEAR MATERIAL EVENTS DATABASE  
**Sent:** Monday, December 21, 2009 4:31 PM  
**To:** Piskura, Deborah  
**Cc:** Frazier, Cassandra; Wiedeman, Darrel; Dante C Huntsman  
**Subject:** RE: Information request for NMED item 090748

I'm sorry Debbie, I have one more question concerning this incident. Did the patient receive dose (in rad) due to the I-131 residing in the feeding tube for several days prior to the tube being replaced (9/21 through 9/25/2009)? Also, I had asked for the activity of the I-131 prescribed and given, which you answered (187 mCi prescribed and 21 given). The other question I had was; what dose was prescribed and given to the patient's thyroid? I should have clarified that question with; the answer should be in rad or rem. Sorry about that. If you know how many rad the thyroid was prescribed and given that would be great. Thanks again for all your help,

Dante