

SUNSI Review Complete
Template=ADM-013
E-RIDS=ADM-03

As of: 8/22/23, 10:33 AM
Received: August 11, 2023
Status: Pending_Post
Tracking No. 116-ufu5-h317
Comments Due: August 20, 2023
Submission Type: API

PUBLIC SUBMISSION

ADD: Harriet Karagiannis
Bridget Curran, Brain Allen,
Mary Neely
Comment (21)
Publication Date: 4/21/2023
Citation: 88 FR 24495

Docket: NRC-2023-0086

Draft Regulatory Guide: Release of Patients Administered Radioactive Material

Comment On: NRC-2023-0086-0001

Draft Regulatory Guide: Release of Patients Administered Radioactive Material; Extension of Comment Period

Document: NRC-2023-0086-DRAFT-0023

Comment on FR Doc # 2023-08418

Submitter Information

Name: Jacob Dubroff

Address:

Philadelphia, PA, 19104

Email: jacob.dubroff@pennteam.upenn.edu

Phone: 215-662-3041

General Comment

See attached file(s)

Attachments

NRC release limits 11aug2023 jacob dubroff



August 11, 2023

RE: Strong Opposition to Proposed Revision to CFR35.75 - Critical Impact on Radiopharmaceutical Therapy (RPT) Patients

To Whom It May Concern:

I am writing to comment on the upcoming revision to CFR35.75 as it relates to patient release criteria after radiopharmaceutical therapy (RPT). The proposed changes would lower patient release criteria to 8.6 mCi for I-131 and 110 mCi for Lu-177 (Table 1, page 11) which would, in turn, dramatically negatively impact the care and management of our RPT patients. Under currently guidelines, up to 200 mCi ranges of either I-131 or Lu-177 can be safely administered. The prevailing trend of outpatient care for oncology patients, epitomized by chemotherapy and same-day outpatient surgical procedures, has seamlessly integrated RPT as an essential component, underscoring the negligible risk it poses to public safety under the current CFR35.75.

What becomes of our patients if revision 2 is adopted? I fear abandonment. Hospitalization of patients undergoing RPT for radiation protection of the public is not feasible. Hospital capacity in the United States continues to decline and post-pandemic shortages of skilled nursing and other staff have only exacerbated inpatient bed availability (3, 4). The added regulatory burdens of the proposed criteria will force many providers to stop offering RPT.

The proposed revision casts a shadow of uncertainty over the future of RPT patients. Conservative estimates project that up to 40,000 patients per year could benefit from Lu-177 based RPT in the United States alone, with further potential expansions of PSMA/DOTATATE therapies to diverse conditions and patient cohorts (5). This burgeoning landscape has also enticed pharmaceutical enterprises to initiate numerous Phase I-III trials focused on imaging marker-guided treatments across various malignancies. These trials often adhere to treatment dosages consistent with our existing practices and certain instances even advocate personalized dosimetry to optimize therapeutic outcomes. A relevant example is the success of high specificity I-131 MIBG, wherein personalized doses of up to 500 mCi have engendered remarkable positive outcomes and subsequently secured approval as the first-line therapy for advanced paragangliomas and pheochromocytomas.

The past and future of RPT deserves a regulatory threshold that balances the public safety with the unmet needs of our patients. Revision 2 proposals on content of patient instructions, breastfeeding, and guidance on patient death after treatment are a welcome update to the current patient release guidelines. The remainder of the proposed revision, though well-intentioned, threatens to stifle innovation, impede patient access, and instigate the withdrawal of dedicated providers from offering RPT services. I emphatically urge the NRC to maintain the current release activity levels.

Sincerely,

Jacob Dubroff



References:

1. C. Kratochwil et al., *Eur J Nucl Med Mol Imaging*. 50, 2830–2845 (2023).
2. A. M. Avram et al., *J Nucl Med*. 63, 15N-35N (2022).
3. A. Frakt, A Sense of Alarm as Rural Hospitals Keep Closing. *The New York Times* (2018), (available at <https://www.nytimes.com/2018/10/29/upshot/a-sense-of-alarm-as-rural-hospitals-keep-closing.html>).
4. B. Martin, N. Kaminski-Ozturk, C. O’Hara, R. Smiley, *J Nurs Regul*. 14, 4–12 (2023).
5. J. Czernin, J. Calais, *J Nucl Med*. 63, 805–806 (2022).
6. FDA Label Search, (available at <https://labels.fda.gov/>).