

Ra-226 Roundtable – Opening Remarks



Introduce myself on behalf of the DOE Isotope Program

There has been a surge of interest in radiopharmaceuticals that target cancer at the cellular level

Specifically, the properties of alpha-emitting isotopes make them well suited for treatment of cancer with their ability to deliver a high target-specific radiation dose due to their short & well-defined track length in targeted alpha therapy

There continues to be exciting developments in research/clinical trials with for example Ac-225. The DOE IP has worked for over a decade as a leader in the development of production techniques and separation chemistry for relevant alpha-emitters, including Ac-225

Ra-226 is a valuable but limited feedstock that can be used for production of alpha-emitting radioisotopes used in TAT – Ac-225, Ac-227, Th-228, Th-229.

Two points -

- 1. Working with Ra-226 is hard and needs awareness of its risks/hazards and careful planning for its safe handling. It takes appropriate facilities, equipment, experienced personnel, procedures, operational controls to work with safely. Engineering, administrative, PPE controls need to be tailored to its use.
- As it is mostly obtained from legacy waste medical devices and is a limited resource, it is important to properly use and steward Ra-226 through its recovery, processing, and recycling.

We've lined up a presenters from various institutions around the world with expertise in handling Ra-226. The goal is to share best practices, lessons learned, and convey that taking on Ra-226 work requires sober analysis, planning, and implementation of appropriate controls.

I look forward to the presentations and discussion in this roundtable and appreciate your participation! Julie.