

# Nuclear Material Events Database (NMED)

### NMED Web site

The NMED Web site (<https://nmed.inl.gov>) contains approximately 28,000 records of material events reported to the NRC since January 1990.

Event information is submitted by NRC licensees, Agreement States, and non-licensees. Select international events are also included.

Each event is classified into one or more of the following categories (also referred to as event types):

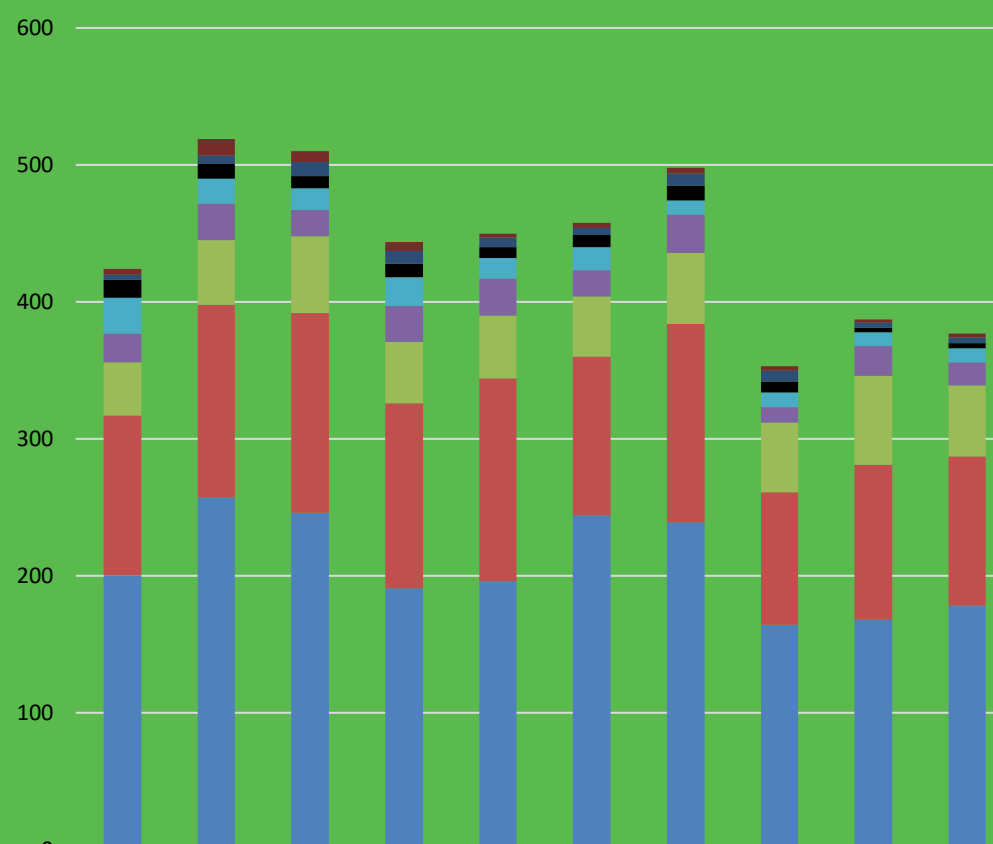
- Lost/Abandoned/Stolen Material (LAS),
- Medical (MED),
- Radiation Overexposure (EXP),
- Release of Licensed Material or Contamination (RLM),
- Leaking Sealed Source (LKS),
- Equipment (EQP),
- Transportation (TRS), and
- Other (OTH).

### NMED Software

The NMED software is a Microsoft Access database that is available to Agreement State agencies. It provides a means of tracking local events and facilitates reporting applicable events to the NRC.

The software was designed to assist Agreement States in meeting the reporting guidance contained in procedure SA-300, *Reporting Material Events*. Approximately 75% of the Agreement States use this software; others use in-house systems or emailed reports.

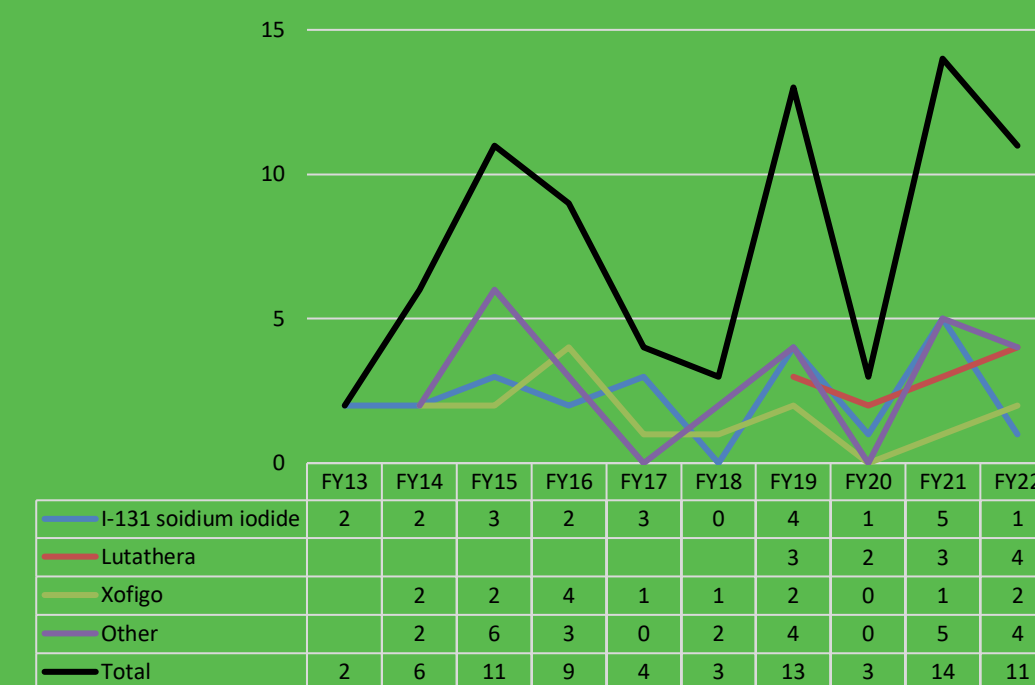
Reportable NMED Events by Event Type



	FY13	FY14	FY15	FY16	FY17	FY18	FY19	FY20	FY21	FY22
OTH	4	12	8	7	3	4	4	3	2	3
RLM	4	6	10	9	7	5	9	8	4	4
EXP	13	11	9	10	8	9	11	8	3	4
TRS	26	18	16	21	15	17	10	11	10	10
LKS	21	27	19	26	27	19	28	11	22	17
MED	39	47	56	45	46	44	52	51	65	52
EQP	117	141	146	135	148	116	145	97	113	109
LAS	200	257	246	191	196	244	239	164	168	178
Total	424	519	510	444	450	458	498	353	387	377

Note: This data includes both NRC and Agreement State-regulated events.

Medical Events Involving Radiopharmaceuticals



A review of reportable medical events was performed with emphasis on recently approved treatments.

- Of the 497 medical events, 76 events (15%) involved the administration of radiopharmaceuticals.
- 23 (30%) of the 76 events involved the administration of I-131 sodium iodide.
- 27 (36%) of the 76 events involved the administration of Lutathera (Lu-177 dotatate) or Xofigo (Ra-223 dichloride)
- Pluvicto (Lu-177 vipivotide tetraxetan) had 2 events, Iomab-B (I-131 apamistamab) had 3 events. Th-227 and Ac-225 (investigational products) each had 1 event.

Note: This data includes both NRC and Agreement State-regulated events.

Scan this QR code to navigate to the NMED website. Login required.

