



2015 Scientific Advisory Committee Meeting
Hampton Inn Hotel, Richland, WA
September 1 – 2, 2015



USTUR Health Physics Database: *Update*

Maia Avtandilashvili, Ph.D.
m.avtandilashvili@wsu.edu

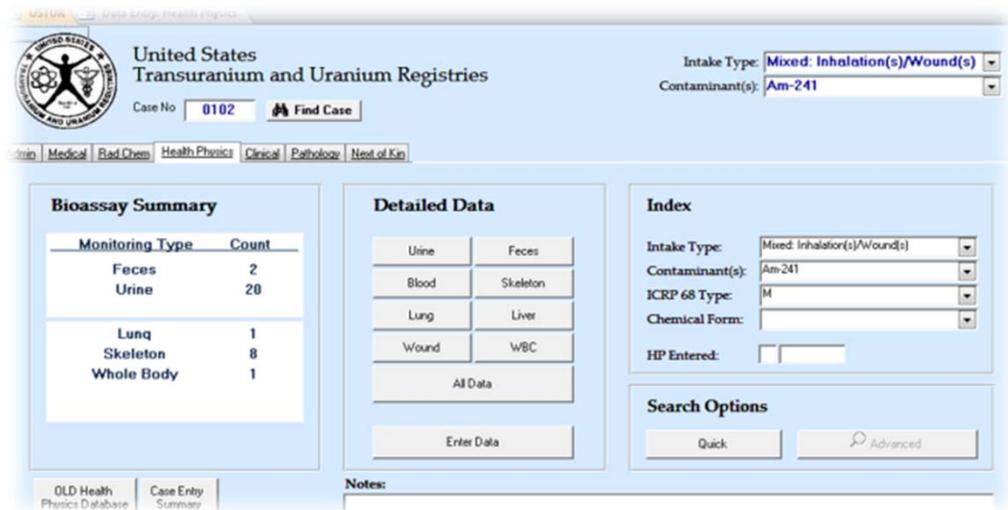
US Transuranium and Uranium Registries
College of Pharmacy, Washington State University



“Learning from Plutonium and
Uranium Workers”

Health Physics Database: Objective

- Easily searchable, standardized records of:
 - ✓ Exposure incidents
 - ✓ Bioassay data
 - ✓ External dose
 - ✓ Dose assessments
 - ✓ Treatment





Health Physics Database: *Priorities*

Donation Type	Deceased	Living
Whole-body	42	7
Partial-body	301	42
Total	343	49

- ‘New’ donations
- Whole-body donations ← **Completed**
- Partial-body donations
 - ✓ Worksite
 - ✓ Special scientific interest





Health Physics Database: *Priorities*

Donation Type	Deceased	Living
Whole-body	42	7
Partial-body	301	42
Total	343	49

- ‘New’ donations
- ‘Old’ donations
 - ✓ Worksite
 - ✓ Special scientific interest





Health Physics Database: 2015 Routine Entry

- ‘New’ donations
 - ✓ 0377, 0787: completed
 - ✓ 0805: no health physics records available
- ‘Old’ donations
 - ✓ 54 cases completed
 - ✓ SVR (13), LOS (11), URW (9), OAK (5), ROC (4), MND (4), FER (3), HAN (1), and others (4)





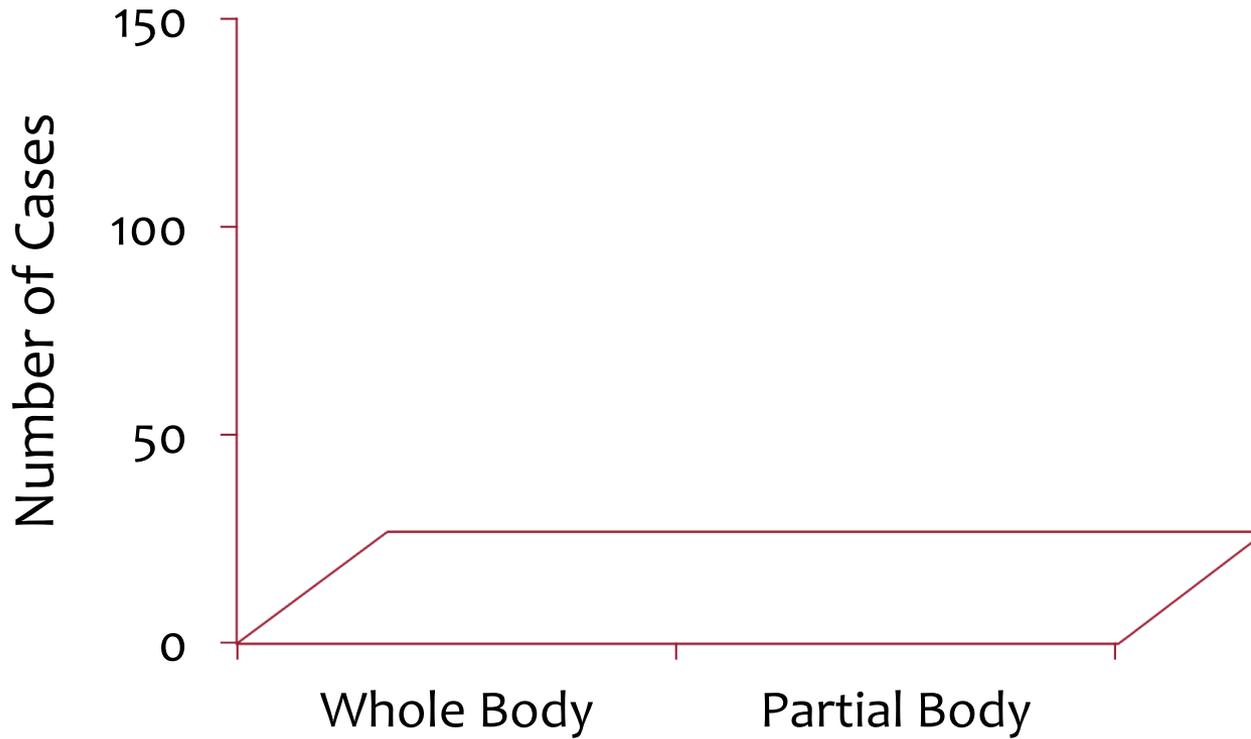
Health Physics Database: *Special Interest Cases*

Two living cases of special scientific interest completed:

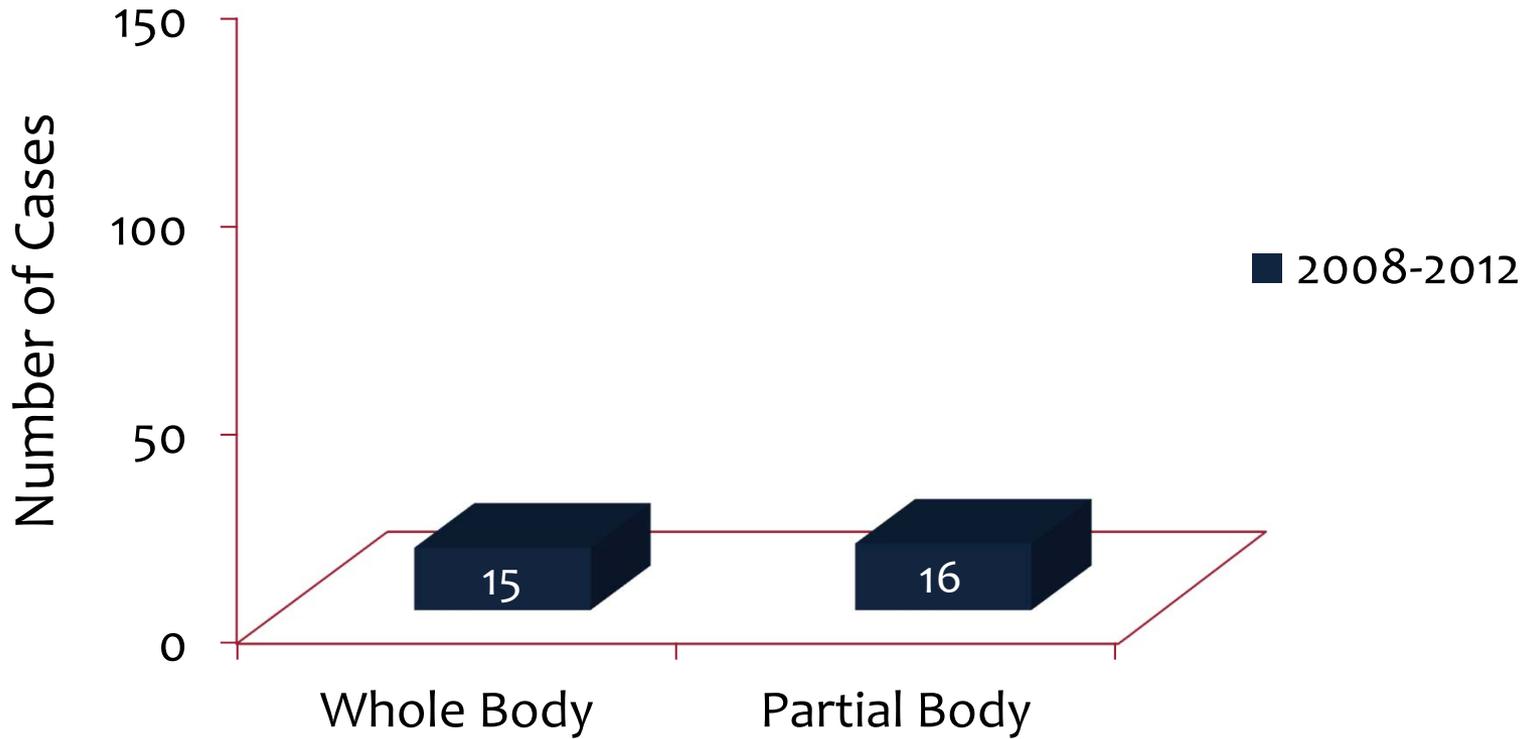
- 0855 – Special Study – ^{241}Am inhalation
 - ✓ Kathren et al. *Health Phys* 2003; 84: 576-581
 - ✓ James et al. *NCRP Report* 164; 2009
- 0820 – Partial-Body Registrant – ^{239}Pu wound
 - ✓ Falk et al. *Health Phys* 2006; 91: 128-143



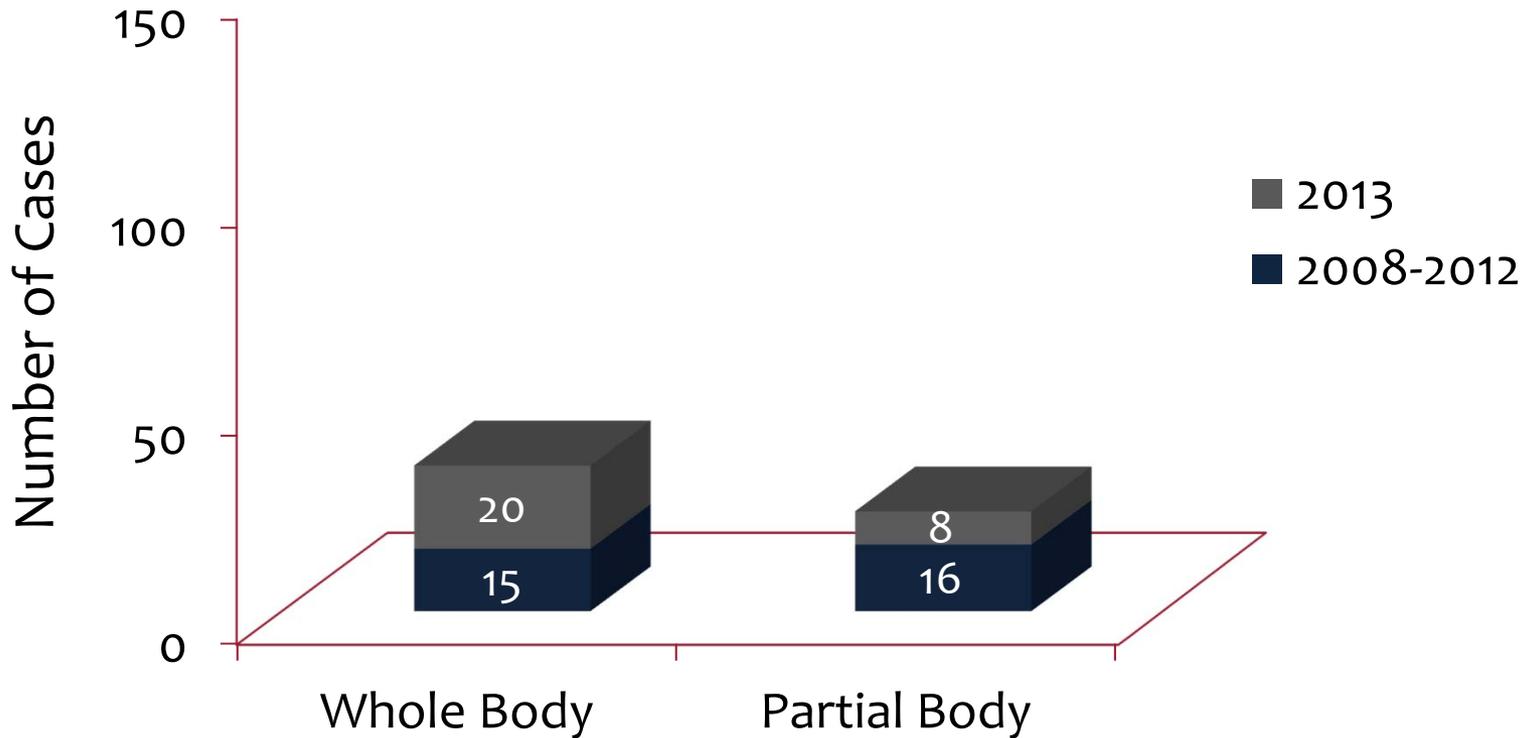
Health Physics Database: *Progress by Case*



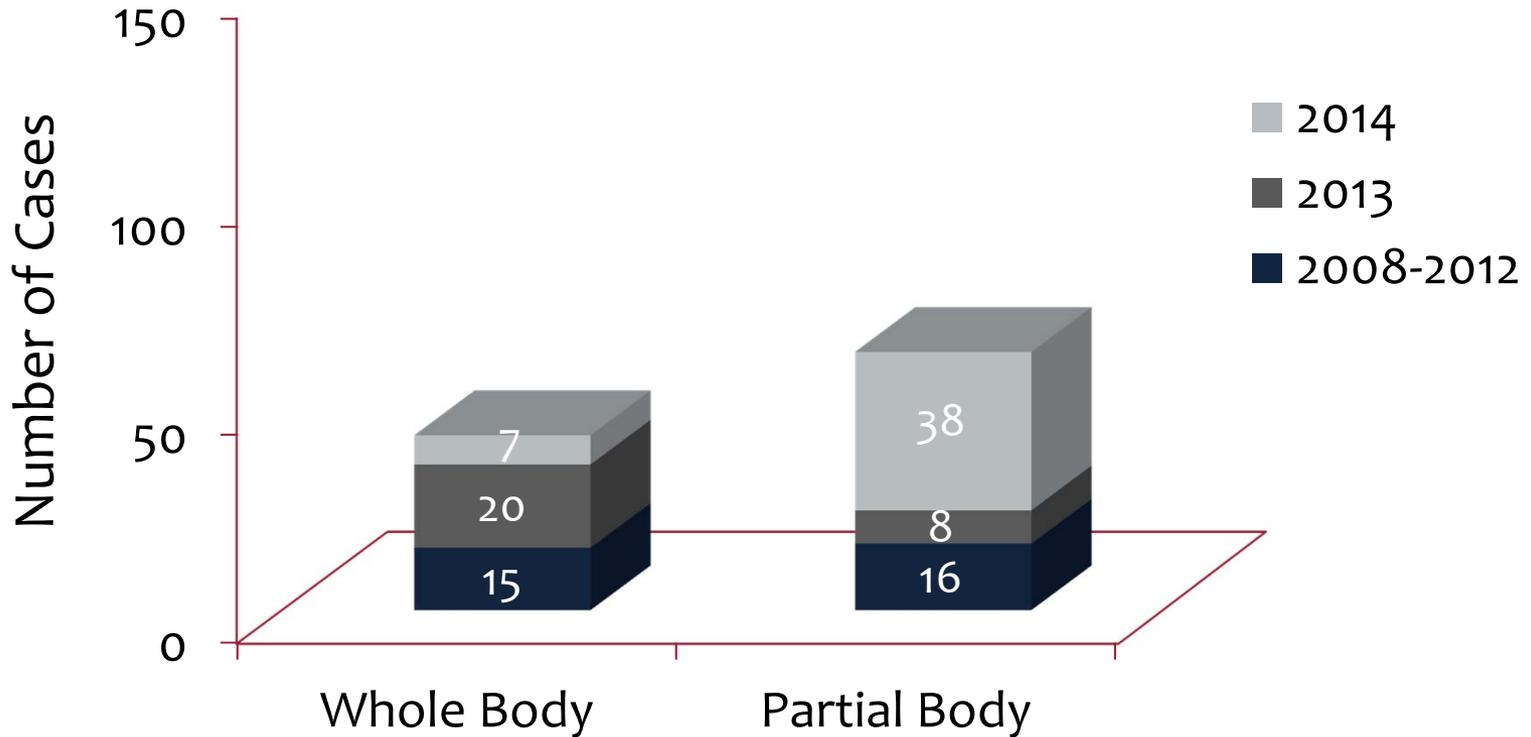
Health Physics Database: *Progress by Case*



Health Physics Database: *Progress by Case*

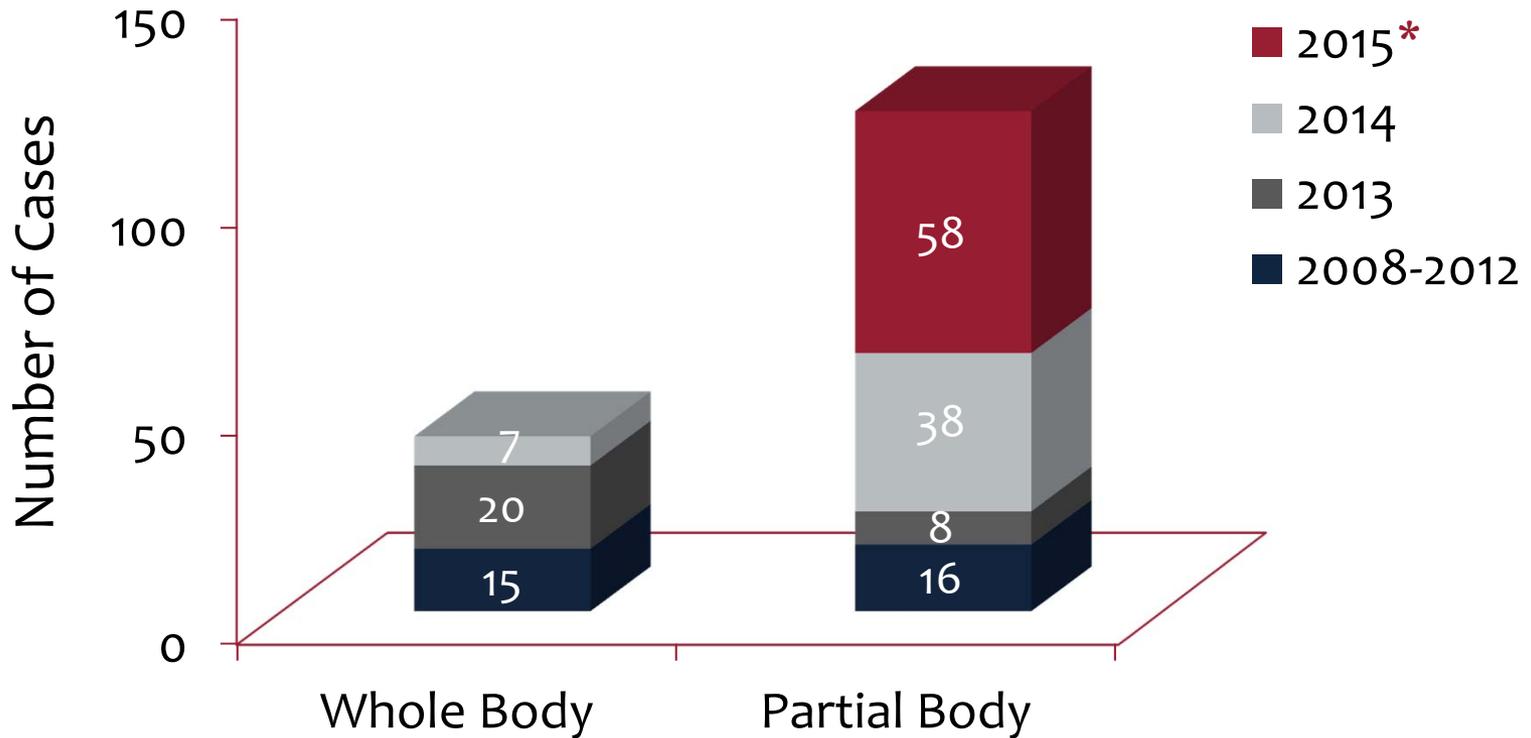


Health Physics Database: *Progress by Case*



Health Physics Database: *Progress by Case*

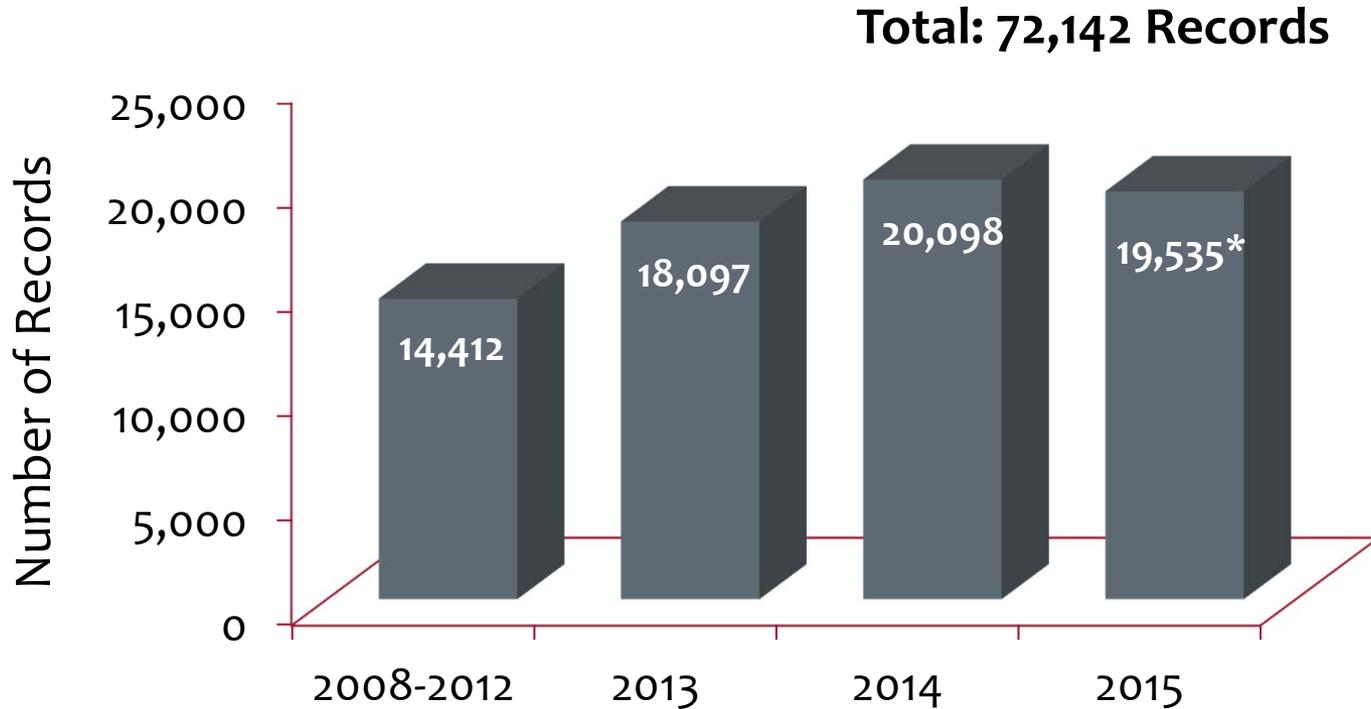
Total Completed Cases: 160



** Including two living cases of special scientific interest*



Health Physics Database: *Progress by Records*



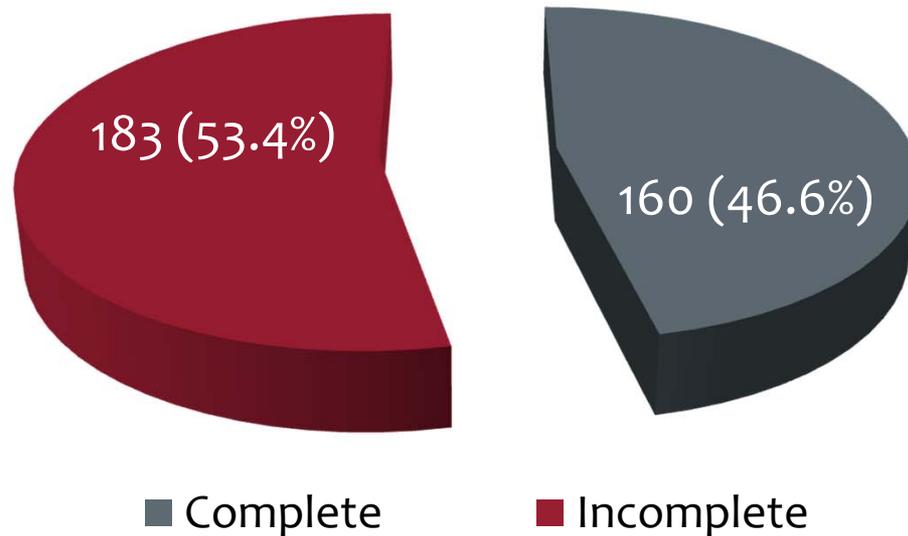
** Including two living cases*





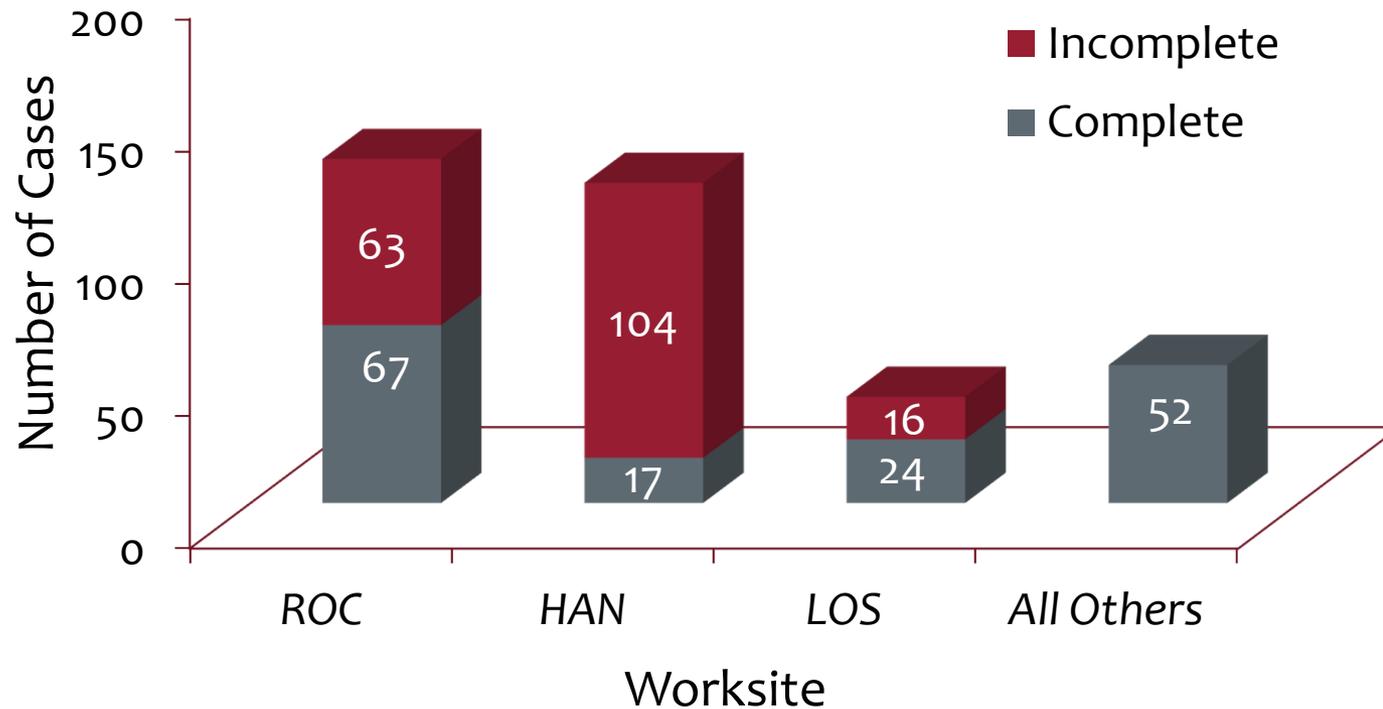
Health Physics Database: *Current Status*

- As of August 1, 2015, 160 of 343 donation cases completed
 - ✓ 42 whole-body
 - ✓ 118 partial-body



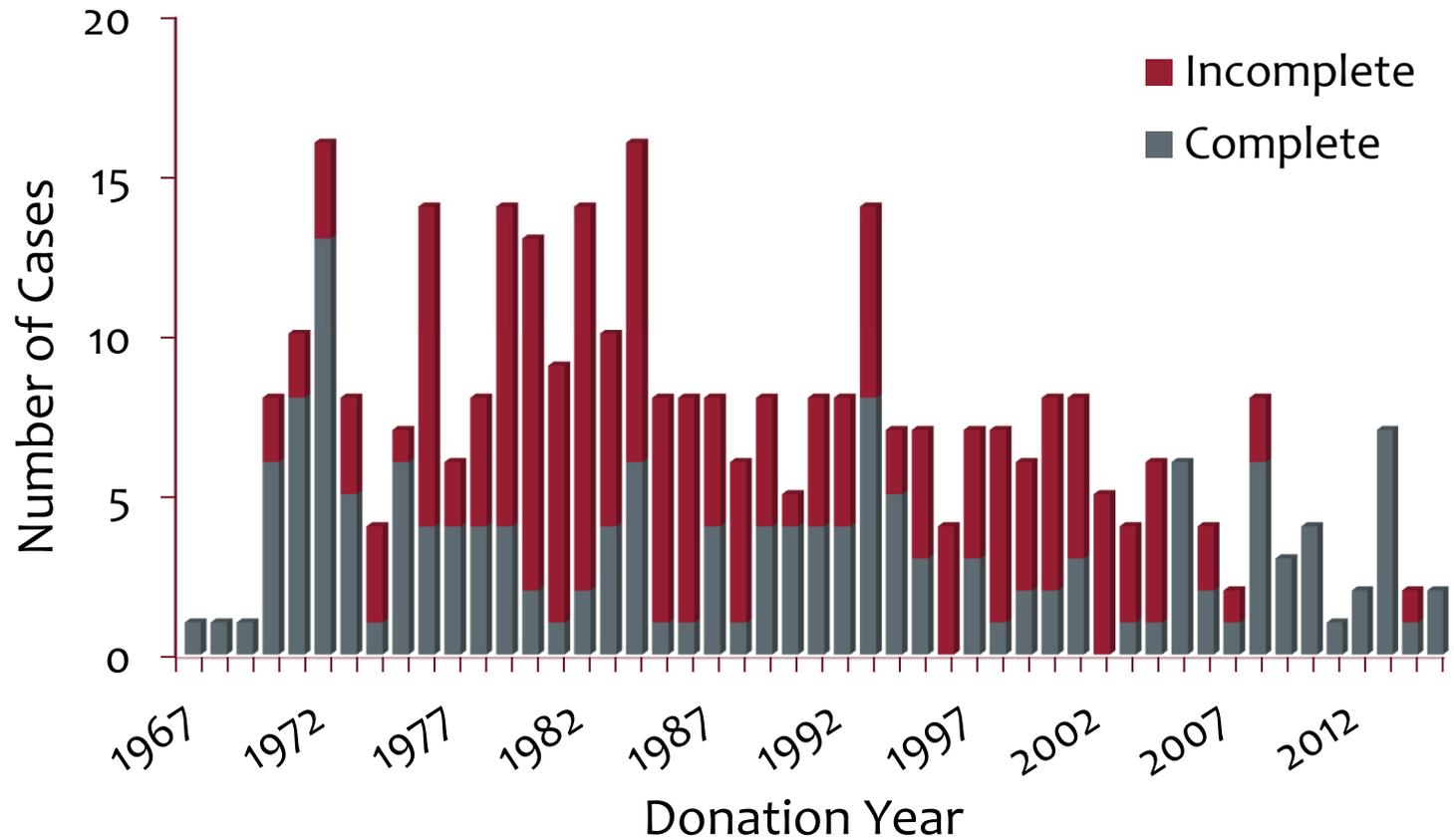


Health Physics Database: *Status by Site*

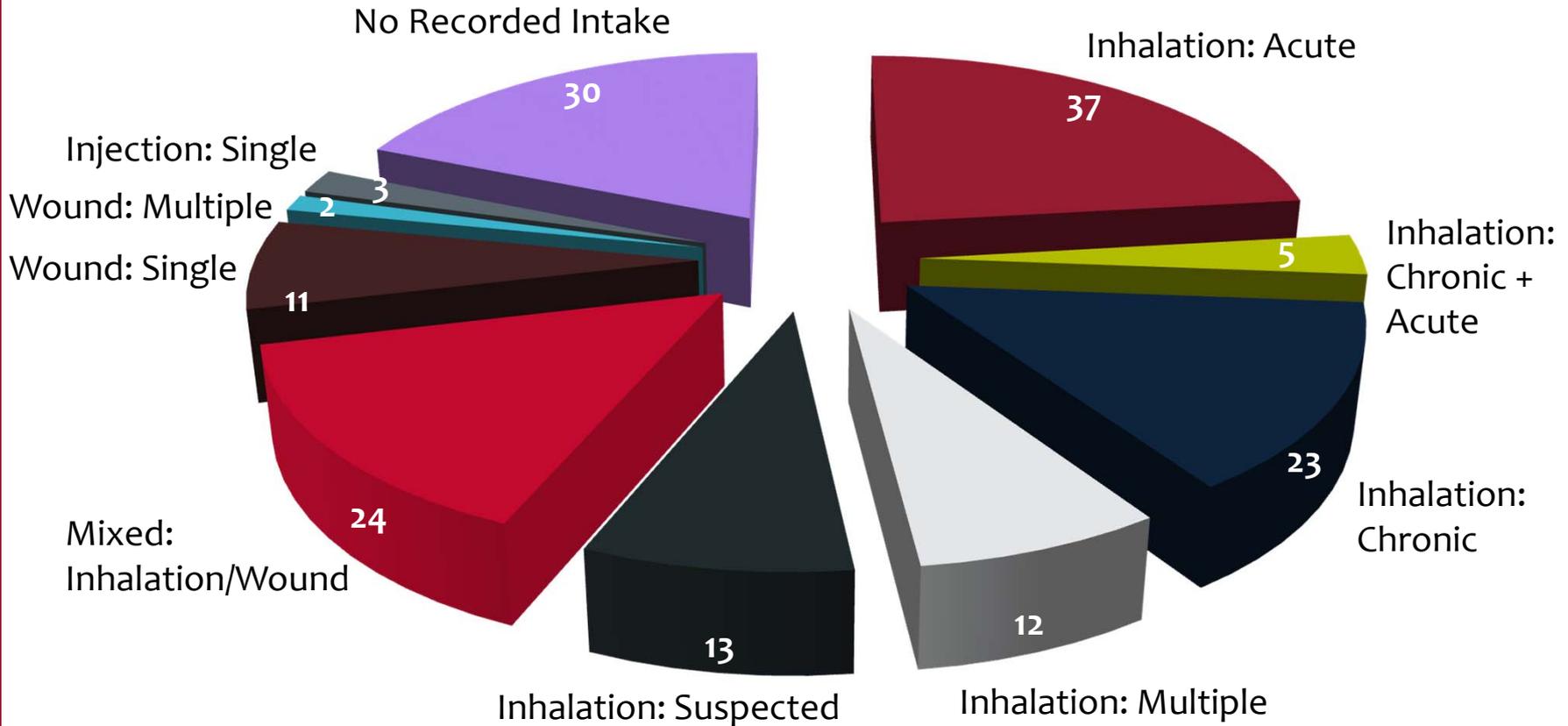




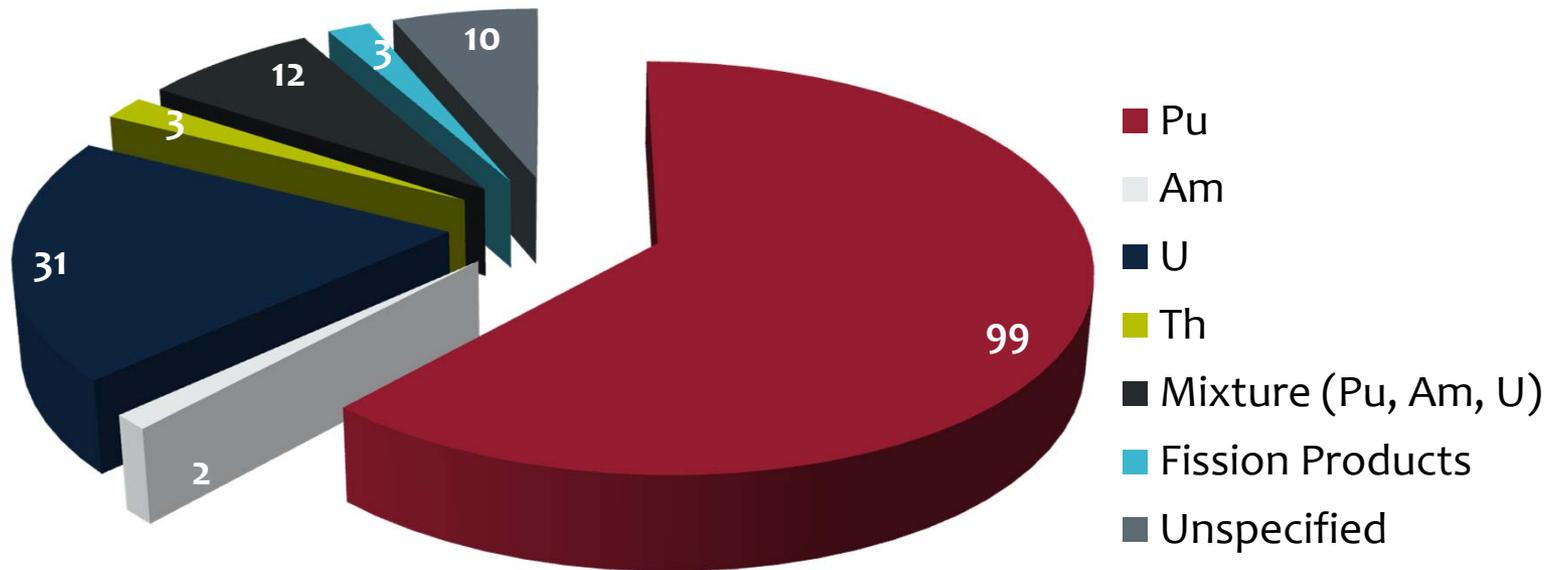
Health Physics Database: *Status by Donation Year*



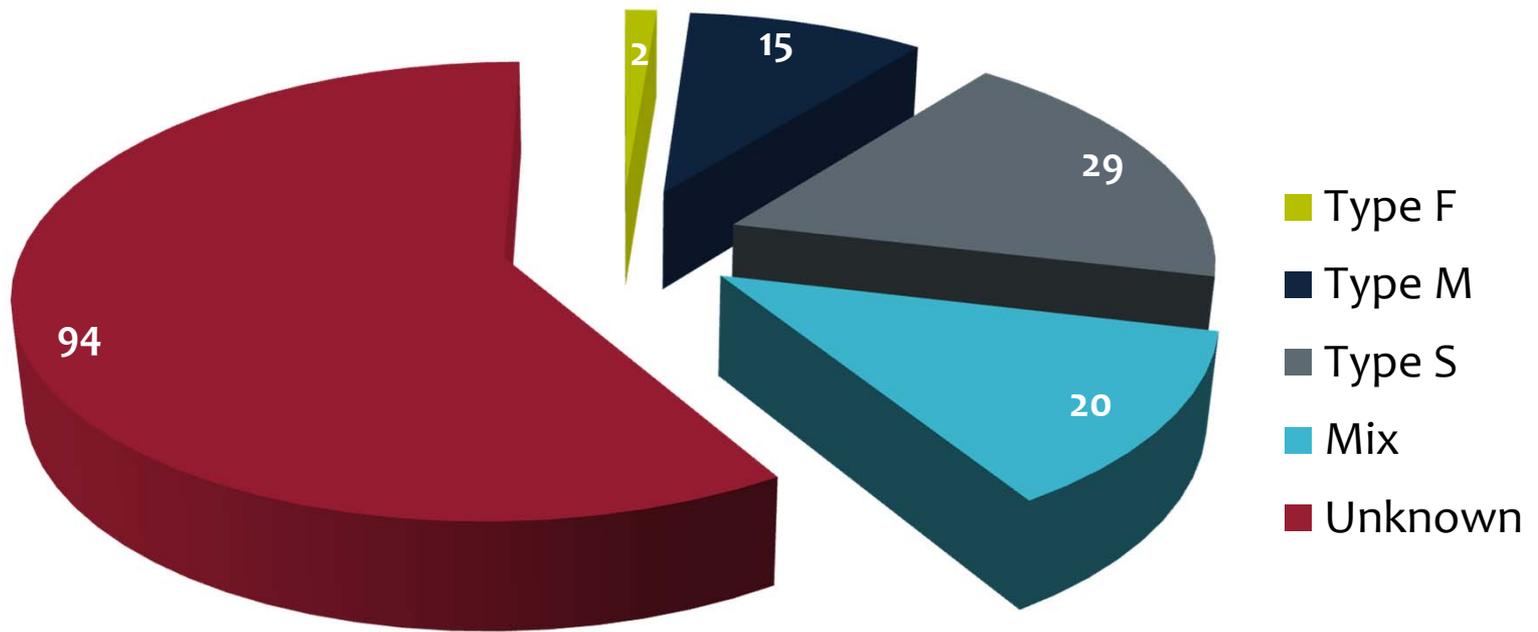
Completed Donation Cases by Intake Type



Completed Donation Cases by Radionuclide



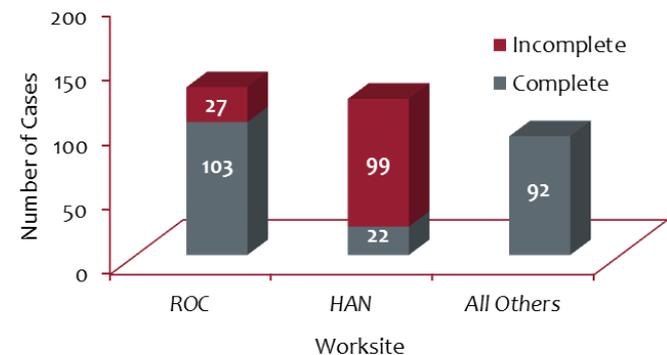
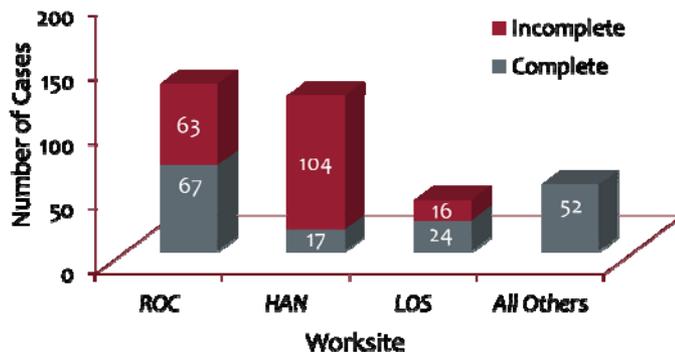
Completed Donation Cases by Solubility Class





Health Physics Database: 2016 Goals

- Complete 'new' donation cases as received
- Continue data entry for 'old' donations by worksites
 - ✓ Complete Los Alamos cases
- Planned:
 - ✓ 18,000–19,000 records: 40–45 cases





Thank you!

