

2014 Year in Review

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-Fortuna Favet Paratis-

est. 2006

Agenda

- 2014 Highlights
- 2015 Projects
- 2015 Tasks
- Questions



Relevant Information



"I continue to be much more concerned when it comes to our security with the prospect of a nuclear weapon going off in Manhattan,"

-President Obama on March 25, 2014



People do strange things

There is a fine line between genius and insanity... and stupidity....



Taylor, seen here in his garage in Reno, Nevada, built a nuclear reactor when he was 14 in the basement of the University of Nevada physics lab. PHOTOGRAPH BY DEANNE FITZMAURICE, NATIONAL GEOGRAPHIC







And people do stupid things

KKK member and his friend built 'truckmounted death ray' and wanted to 'kill President Obama and Muslims in revenge for Boston bombings'

- Undercover agents posing as radiation suppliers tracked pair for a year
- President was alleged target over Boston Marathon bombings
- Industrial mechanic Glendon Crawford says he wanted to target Muslims
- Synagogue called FBI after being offered device to 'kill enemies of Israel'

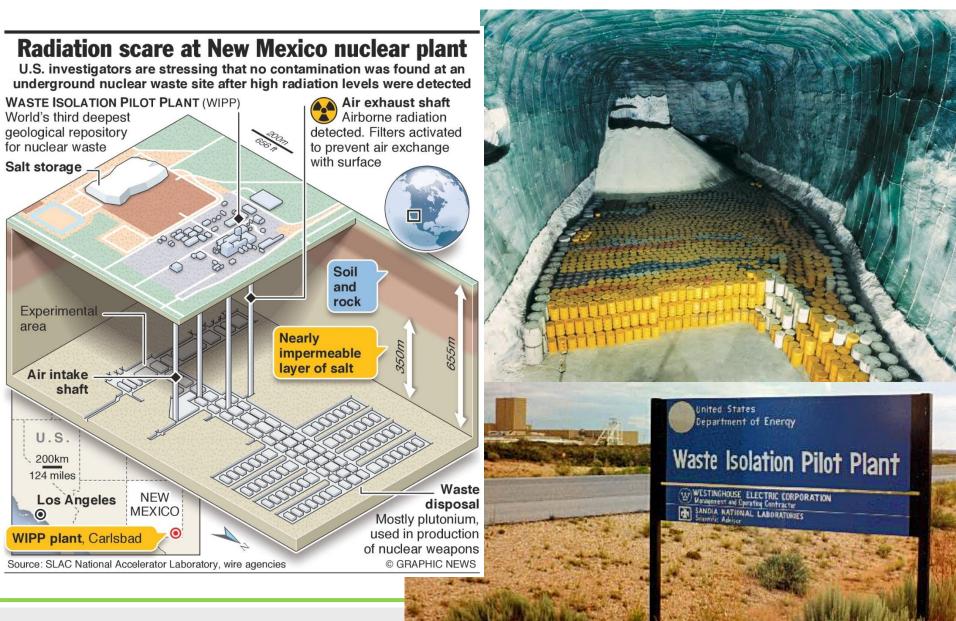




Accident in US (Feb 2014)



Accident in US (Feb 2014)



Availability of Materials on black market?

2005

Ukrainian police <u>seiz six</u> metal containers filled with cesium-137 in a village in Crimea The containers' radiation level exceed the normal background level by 380 times, prompting officers to evacuate the home in which they were discovered and surrounding houses.

2006

 A Russian man attempting to sell 100 grams of weapons-grade uranium is <u>arrested</u> through a joint Georgian-CIA operation in Tbilisi, along with several Georgian accomplices. Oleg Khinsagov was carrying a plastic bag full of the highly enriched uranium in his pocket. The capture is one of the largest of its kind, and Khinsagov is sentenced to eight to ten years in prison.

2008

 A staffer of the Ukrainian Embassy in Germany and the security manager of a Ukrainian bank are <u>arrested</u> with radioactive materials, including ukanium and cesium, worth 3.1 millions euros (\$4.1 million) in their car. The material had been stolen from a Kiev holding facility, and the two planned to sell it to a criminal group.

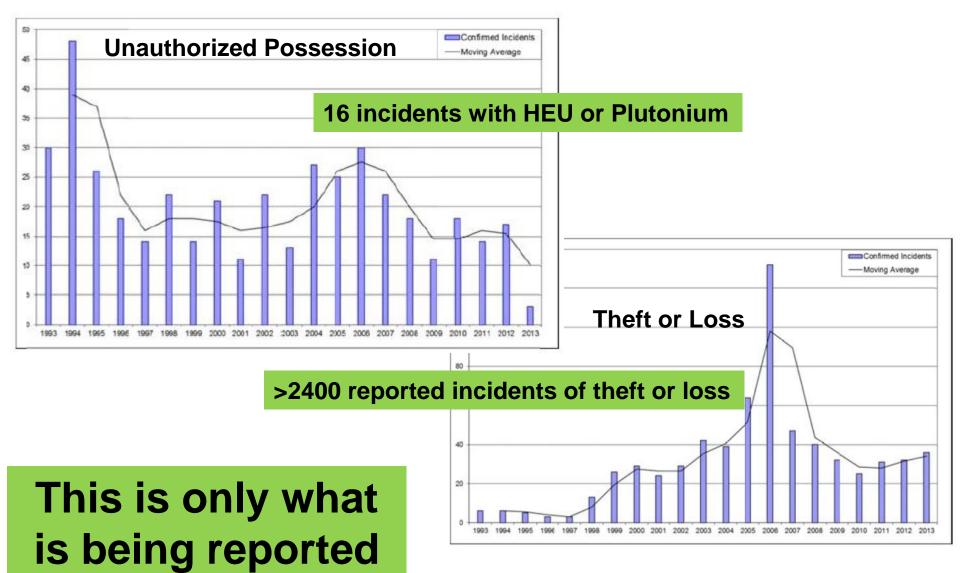
2011

Moldovan police <u>arrest</u> six people for attempting to sell more than one kilogram (2.2 pounds) of uranium-235, valued at approximately \$20 million.

Read more: http://www.smithsonianmag.com/science-nature/Top-Ten-Cases-of-Nuclear-Thefts-Gone-Wrong-189690171.html#ixzz2a09xBnbQ



IAEA Reported Incidents 1993-2013

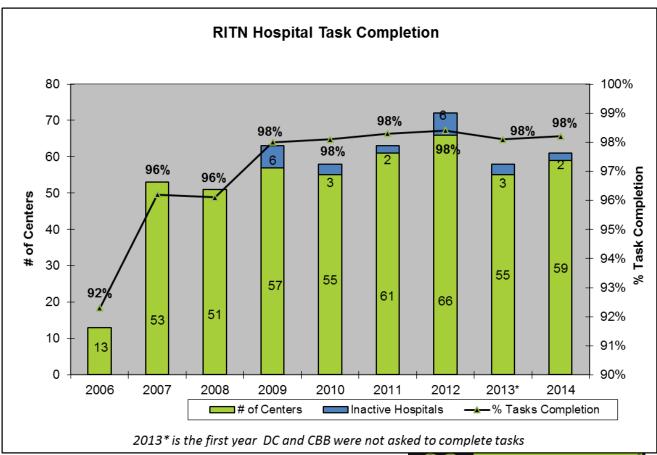


2014 Highlights

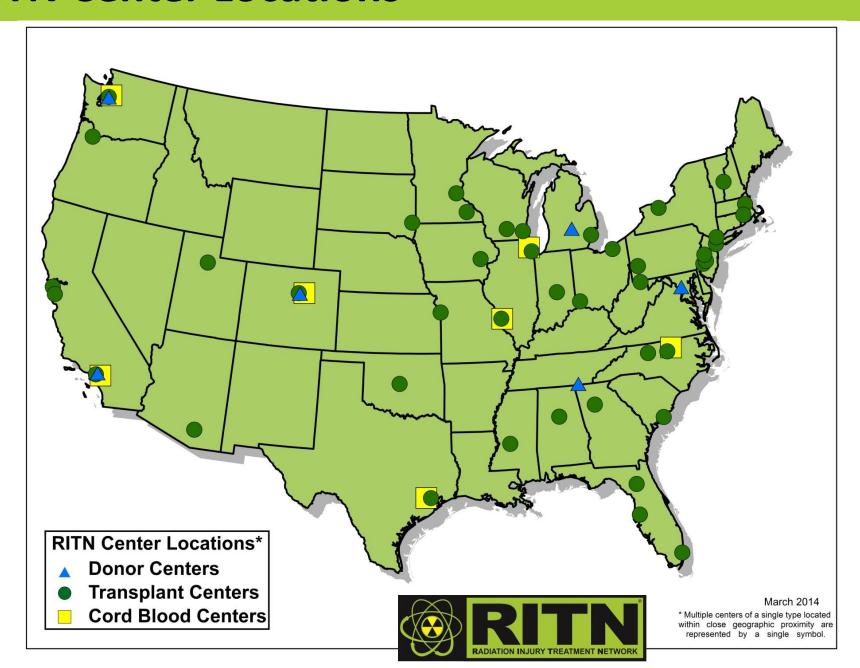


Growth

- Two centers were inactive during 2014: Univ of Iowa & Westchester
- Four centers joined RITN during 2014:
 - Univ. of Colorado-Aurora (CO)
 - Northwestern University (IL)
 - Emory University (GA)
 - NorthShore University (NY)



RITN Center Locations



Radiation Injury Treatment Network

Transplant Centers		Transplant Centers		
AL - University of Alabama at Birmingham	P/A NDMS HPP	OH - Cincinnati Children's Hospital Medical Center	Ped	
AZ - University Medical Center	P/A NDMS HPP	OH - Cleveland Clinic Foundation		NDMS HPP
CA - UCSF Medical Center	P/A	OH - University Hospitals of Case Medical Center		NDMS HPP
CA - City of Hope National Medical Center	P/A NDMS HPP	OK - Oklahoma Univ. Medical Center & Childrens Hosp	ital P/A	NDMS
CA - Stanford Hospital and Clinics	P/A NDMS HPP	OR - Oregon Health & Science University	P/A	NDMS HPP
CO - Presbyterian/St. Lukes Medical Center	NDMS HPP	PA - Children's Hospital of Philadelphia	Ped	NDMS HPP
CO - University of Colorado (Aurora)	P/A NDMS HPP	PA - Temple University		NDMS HPP
FL - All Children's Hospital	Ped NDMS HPP	PA - University of Pennsylvania Medical Center		NDMS HPP
FL - H. Lee Moffitt Cancer Center	P/A NDMS	PA - Western Pennsylvania Cancer Institute		NDMS
FL - Shands Hospital at the University of Florida	P/A HPP	PA - Thomas Jefferson		NDMS HPP
FL - University of Miami	NDMS HPP	RI - Roger Williams Medical Center		NDMS HPP
GA - Northside Hospital	HPP	SC - Medical University of South Carolina		NDMS HPP
GA - Emory University	HPP	SD - Avera McKennan Transplant Institute		HPP
IA - University of Iowa Hospitals and Clinics	P/A NDMS HPP	TX - M.D. Anderson Cancer Center	P/A	HPP
IL - Rush University Medical Center		TX - Texas Children's Hospital	Ped	NDMS HPP
IL - Northwestern University MC	NDMS HPP	UT - LDS Hospital		NDMS
IN - St. Francis Hospital and Health Centers	NDMS HPP	UT - Primary Children's Medical Center	Ped	NDMS HPP
KS - University of Kansas Medical Center	NDMS HPP	UT - University of Utah	P/A	NDMS HPP
MA - Children's Hospital of Boston	Ped NDMS HPP	WA - Seattle Cancer Care Alliance	P/A	NDMS
MA - Dana Farber/Partners Cancer Care	P/A NDMS HPP	WV - West Virginia University Hospitals		NDMS HPP
MA - Massachusetts General Hospital	NDMS HPP	WI - Children's Hosp of WI & Midwest Children's CC	Ped	NDMS HPP
MI - Barbara AnnKarmanos Cancer Center		WI - Froedtert Memorial Lutheran Hospital		NDMS
MN - Mayo Clinic Rochester	P/A NDMS HPP	WI - Univ. of Wisconsin at Madison	P/A	NDMS HPP
MN - University of Minnesota BMT Program	P/A NDMS			
MO - Barnes-Jewish Hospital at Washington	HPP	Donor Centers		
MO - The Children's Mercy Hospital	Ped NDMS HPP	CA - City of Hope National Medical Center		
MS - University of Mississippi Medical Center	P/A NDMS HPP	CO - Colorado Marrow Donor Program		
NC - UNC Hospitals	P/A NDMS HPP	MD - C.W. Bill Young Marrow Donor Center		
NC - Wake Forest Univ Baptist Medical Center	NDMS HPP	MI - NMDP operated donor center		
NC - Duke University Medical Center	P/A NDMS HPP	TN - Blood Assurance		
NH - Dartmouth-Hitchcock Medical Center		WA - Puget Sound Blood Center		
NY - Strong Memorial Hospital	P/A NDMS	-		
NY - Memorial Sloan-Kettering Cancer Center	P/A NDMS HPP	Cord Blood Banks	\sim	
NY - Mount Sinai Hospital	P/A NDMS HPP	CA - StemCyte International Cord Blood Center	at the	The last 1
NY - Westchester Medical Center NY - NorthShore Medical Center	NDMS HPP HPP	CO - University of Colorado IL - ITxM Cord Blood Services		\mathcal{X}
141 - Horasonore Micaldal Contor	ner	MO - St. Louis Cord Blood Bank	1	
		NC - Carolinas Cord Blood Bank		RAD
But Buttetin attention to The		TX - MD Anderson		
Ped = Pediatric patient only facility P/A = Pediatric and adult capable facility		WA - Puget Sound Blood Center	TC 59	

P/A = Pediatric and adult capable facility

**If no capability is annotaed the facility is adult only

NDMS = National Disaster Medical System Center HPP = Hospital Preparedness Program

As of 29 Oct 2014

**please report any corrections to this document to RITN@nmdp.org



Total 72 Total NDMS Centers 45 76% Total HPP Centers 46 78% Total Pediatric or Ped/Adult 31 53%

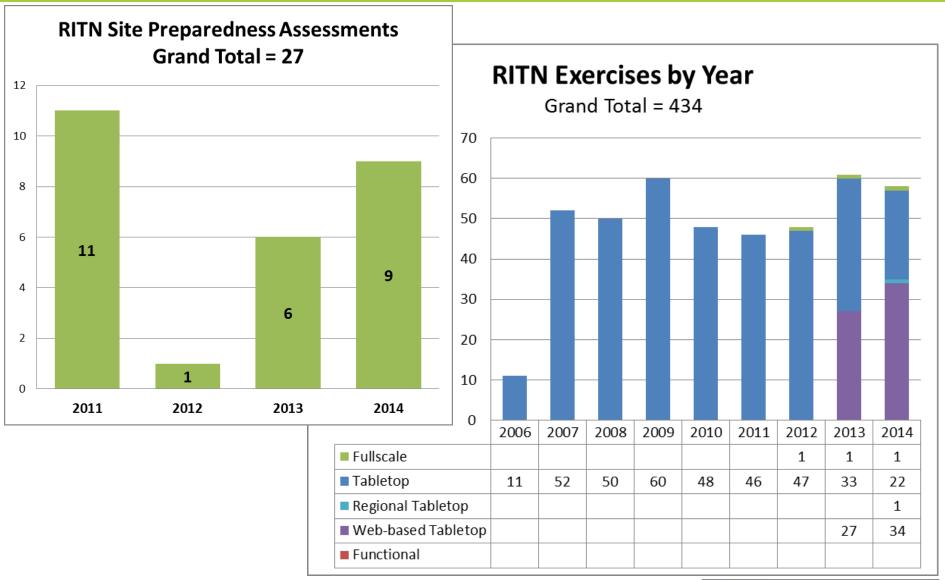
CBB

2014 Projects

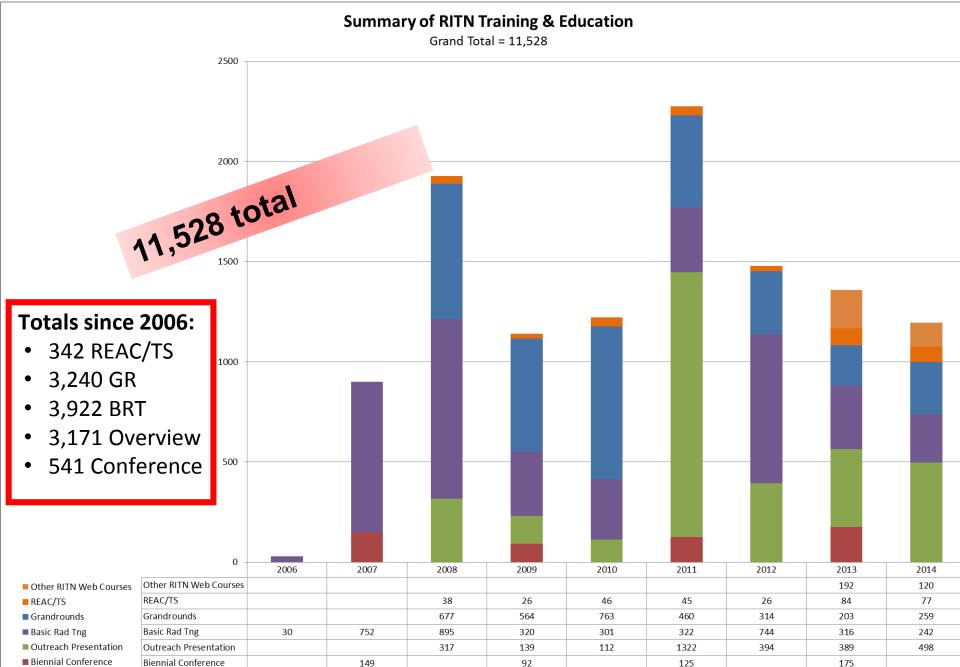
- Exercises:
 - Regional Tabletop in NYC (MSKCC hosted)
 - Fullscale Exercise in Boston (DFCI conducted)
 - 3 Web based tabletops
- Creation of Radiation Safety Communication course
- Released Referral Guidelines
- Collaboration with REMM.nlm.gov on treatment orders
- Site Assessments
- G-CSF distribution project with ASTHO and CDC
- Review of updated REMM ARS guidelines
- Web based data collection forms
- Member of National Alliance for Radiation Readiness



RITN Preparedness Efforts







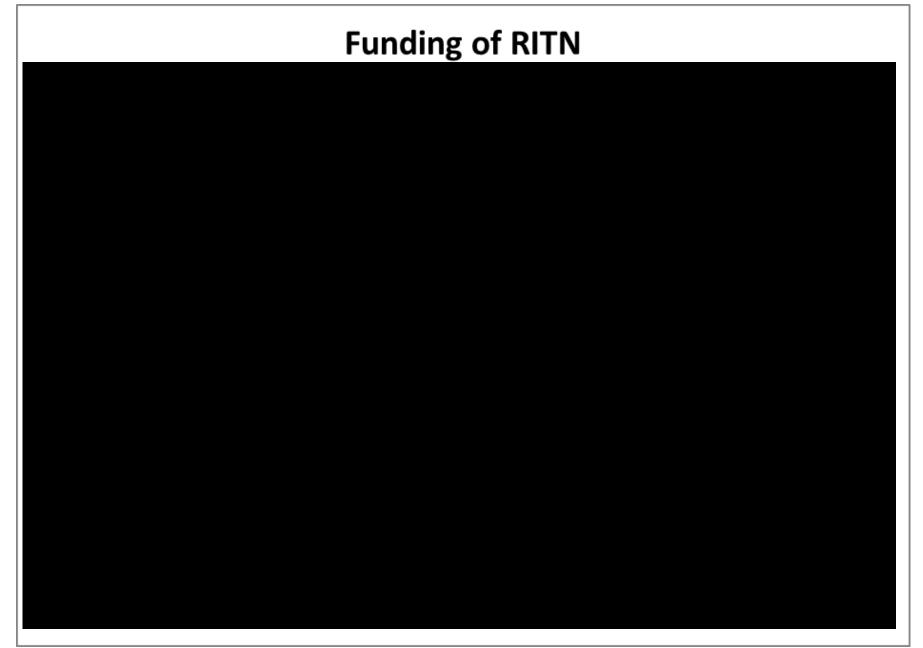
Partners are Critical to Success

- American Society for Blood and Marrow Transplantation
- Department of Defense Office of Naval Research
- Dept. of Health & Human Services-Asst. Sec. for Preparedness & Response
- Health Resources and Services Administration
- Radiation Emergency Medical Management website: www.remm.nlm.gov
- National Assoc. of City and County Health Officials
- Assoc. of State and Territorial Health Officials
- National Alliance for Radiation Readiness <u>www.radiationready.org</u>
- AABB-Disasters Task Force
- Radiation Emergency Assistance Center/Training Site
- New England Center for Emergency Preparedness
- European Group for Blood and Marrow Transplantation-Nuclear Accident Committee
- Center for International Blood and Marrow Transplant Research



2015 Projects and Tasks







2015 Projects

- Growth of RITN (up to 5 new centers)
- Triage guidelines
- Tele Consult Project
- Exercises:
 - Full Scale Exercise: CHOP, WVU
 - Functional Exercise: Univ CO (Aurora), Karmanos (MI), Wake Forest (NC)
 - Regional TTX: Chicago, Seattle, Rochester (MN)
 - 5 x RITN Web based tabletops
- 2 x Mobile REAC/TS training sessions
- Public Health Awareness project with NACCHO
- Meeting at Tandem
- Biennial conference in DC (July 14 & 15, 2015)
 - Travel "scholarships" for 53 to attend (just airfare to DC)
 - Registration will open next week



2015 Tasks (Oct 1, 2014-Aug 31, 2015)

1. Administrative

- a) SOP update, contact update, GETS test, HCS, satellite phone, IRB consents
- b) New: Must have Emergency Manager contact

2. Exercise

- a) Primary choice will be web based on 5 scheduled dates
- b) Can coordinate and host own if prefer

3. Training

- a) Options: 20 x BRT, MD to REAC/TS, Grandrounds, Overview to external preparedness group, site assessment, MD/AP education,
- b) New: new RITN centers must complete online training, 20 x RITN Rad. Safety Communication training, CDC Rad Training, Exercise, Host Mobile REAC/TS



References:

www.RITN.net



www.REMM.NLM.gov

U.S. DEPARTMENT OF HEALTH & HUMAN SERVICES

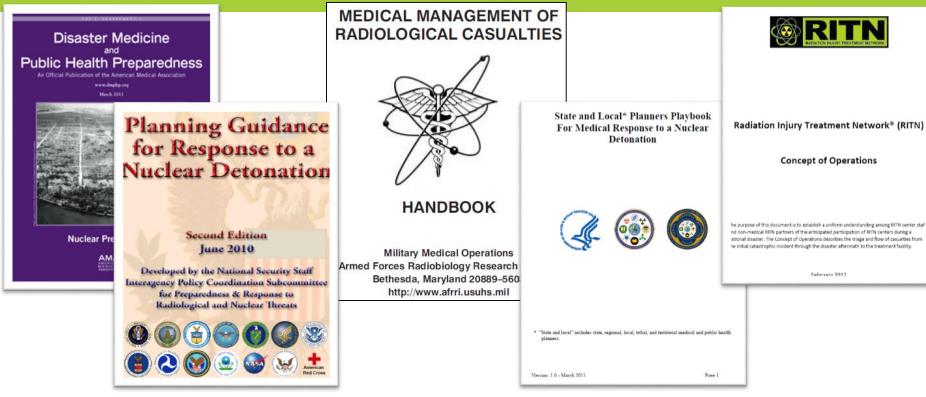
REMM Website Updated Nov 2014
Download the App!!

RADIATION EMERGENCY MEDICAL MANAGEMENT

Guidance on Diagnosis & Treatment for Health Care Providers



Free Resources



- <u>http://journals.cambridge.org/action/displaylssue?jid=DMP&volumeId=5</u>
 &seriesId=0&issueId=S1
- http://www.remm.nlm.gov/PlanningGuidanceNuclearDetonation.pdf
- http://www.phe.gov/Preparedness/planning/playbooks/stateandlocal/nuclear/Documents/statelocalplaybook-v1.pdf
- http://www.usuhs.edu/afrri/outreach/4thEdition.html#acut



Questions?

