2017 Year in Review

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Operated by the National Marrow Donor Program/Be The Match

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www.RITN.net

February 6, 2018
Agenda

• 2017 Highlights
• 2018 Projects and Tasks
• Nuclear Power Plant Preparedness Plans
• Questions
RITN Hospital Task Completion

* Sharp decrease in 2013 was due to the removal of DC and CBB from calculations
2017 Highlights

• Growth of RITN by 1 (79: 68 hospitals/5 blood donor centers/6 cord blood banks)
• Update Adult/Ped Medical orders with REMM
• Data feed into ASPR EOC
• Participation in Gotham Shield
• Exercises
  – 1 Full scale exercise
  – 2 Functional exercises
  – 7 Regional tabletop exercises
  – 64 annual RITN tabletop exercise (50 through webinar)
• RITN Semi-Annual Workshop with 175 attendees
• 1 x Mobile REAC/TS training session
• 1 x AHLS Rad training course
• RITN YouTube page: https://www.youtube.com/channel/UCkd45X1DIPqeRr-u5Iph6Og
  – RITN What You Need To Know (4 min intro video)
  – Univ. of Chicago exercise video
Outreach

• Presentations:
  – NCRP Annual Meeting
  – NACCHO Prep Summit
  – ConRad (German Military Conference)
  – NDMS leadership webinar
  – FBI WMD Workgroup in AZ Radiological Awareness and Response Workshop
  – WHO-REMPAN
  – DOD Transportation Command webinar
  – ASH Annual

• NACCHO and ASTHO-NARR Projects

• Publications:
  – NCRP meeting in Health Physics Journal
  – Current Hematologic Malignancy Reports
## 2017 Exercises

<table>
<thead>
<tr>
<th>RITN Center</th>
<th>Exercise Type</th>
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<tr>
<td>Spectrum Health</td>
<td>Full Scale Exercise</td>
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<tr>
<td>Massachusetts General Hospital</td>
<td>Functional Exercise</td>
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<tr>
<td>Rush University Hospital</td>
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<tr>
<td>Memorial Sloan Kettering</td>
<td>Regional Table Top Exercise (RTTX)</td>
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<td>Children’s Mercy Hospital</td>
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<td>Children’s Hospital of Philadelphia</td>
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<tr>
<td>Wake Forest Baptist Health</td>
<td>RTTX</td>
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<tr>
<td>Spectrum Health</td>
<td>RTTX</td>
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</table>
• 2017 New Centers:
  – Univ. of Chicago

• 2017 Inactive:
  – Thomas Jefferson
  – Westchester Medical
  – All Children’s

For full list go to RITN.net/about
RITN Preparedness Efforts

RITN Training & Education
Grand Total = 14,984

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<thead>
<tr>
<th>Year</th>
<th>Other RITN Web Courses</th>
<th>AHLS</th>
<th>REAC/TS</th>
<th>Grandrounds</th>
<th>Basic Rad Tng</th>
<th>Outreach Presentation</th>
<th>Biennial Conference</th>
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RITN Preparedness Efforts

RITN Site Preparedness Assessments
Grand Total = 48

- 2011: 11
- 2012: 1
- 2013: 6
- 2014: 9
- 2015: 6
- 2016: 8
- 2017: 7

RITN – Year in Review
RITN Exercises by Year
Grand Total = 654

<table>
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<tr>
<th>Year</th>
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<th>Regional Tabletop</th>
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<td>7</td>
<td>50</td>
<td>47</td>
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</tbody>
</table>
DISASTER EXERCISE IN PROGRESS

• Overhead pages may be made, but will be identified as “This is a drill.”
• Spectrum Health employees will be involved and will respond according to our written Response Plans.
• Actors may participate. Some may have makeup applied to give the appearance of injury. These individuals will each wear a lanyard with card describing their injuries.
2018 Projects and Tasks

- Grow RITN
- Projects:
  - NACCHO preparedness gap analysis
  - ASTHO rad. training courses for new public health preparedness staff
  - Lab Surge Plan Development
  - Cytokine Triage Guidelines Development
  - Pre-NDMS transportation ARS patient care training
  - Updating SOP template
  - Updating ConOps
- Site Assessments
- Creation of RITN Advisory Committee (more TBA)
2018 Opportunities

• RITN sponsored training opportunities:
  – AHLS @ Tandem in Salt Lake City, UT – Feb. 20 (1-5pm)
  – REAC/TS @ Banner in Tucson, AZ – April 3 (8am – 5pm)
  – AHLS @ TX Children’s in Houston, TX – May 2 (first session 8am-noon and second session 1-5pm)

• RITN Meeting at ASBMT/CIBMTR Tandem in SLC, UT
  – 22 Feb 18 from 12-2 PM mountain
  – Room 151 AB
  – Lunch provided
NACCHO Preparedness Summit Grant

- $2,000 Travel Grant for NACCHO Prep Summit (15-20 April, 2018 in Atlanta)
  - Grant paid in advance
  - If your institution spends less than the $2,000 your institution keeps the difference, if you spend more then your institution must cover the additional cost

- Conference will not count towards Annual Task 3

- Logistics:
  - Submit names to Jen before 20 Feb 2018
  - First come first served, initially one per center, if all grants are not taken backups will be selected
  - Jen will coordinate conference registration so a group discount code is applied you will receive the invoice
  - Must provide confirmation of actual attendance (attendee badge, talk to Jen at conf.)
  - Attend radiation preparedness sessions
2018 Exercises

- Full Scale Exercise ($50,000 grant)
  - Philadelphia RITN FSE (Children’s Hospital of Philadelphia, Univ of PA Medical Center)
- Functional Exercises ($25,000 grant)
  - Texas Children’s Hospital
  - Children’s Mercy Hospital
- Drill ($10,000 grant)
  - Tucson NDMS Exercise (Banner Health)
- Regional Table Top Exercises ($5,000 grant)
  - Allegheny Health (West Penn)
  - Ohio University Hospital
  - TBD-if interested @ RITN@nmdp.org
  - TBD-if interested @ RITN@nmdp.org
2018 Tasks (Oct 1, 2017-Aug 31, 2018)

1. Administrative
   a) SOP update, contact update, GETS test, HCS test, satellite phone, IRB consents

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/RSC/CDC-Rad Basics, pre-approved staff to REAC/TS/Conf/Exercise, Grandrounds, Overview to external preparedness group, Host REAC/TS or AHLS
   b) 2nd year centers site assessment
   c) 1st year RITN centers must complete specified training

$8,000
2018 Tasks What is New

- RITN will be testing General Contact numbers
- Task 3 Training
  - Changes to Option E: now expands from only physician or advanced practitioner to include RITN staff
    - Any RITN staff can attend training or conference and share knowledge gained with other staff in formal presentation
    - Presentation draft must be sent to RITN for review
  - Option I - submit idea for approval
  - Option F change:
    - Second year centers will conduct Site Assessment as Task 3
Partners Are Critical to Our Success

Partners

- Office of Naval Research
- ASBMT
- World Health Organization
- ASPR
- U.S. Department of Health & Human Services
- REMM
- National Association of County & City Health Officials
- National Association of County & City Health Officials
- European Society for Blood and Marrow Transplantation
- National Alliance for Radiation Readiness
- Radiation Countermeasures Center of Excellence
- Be the Match
- RITN – Radiation Injury Treatment Network
Guest Speaker

• Bill Pook, MEP

• Bill, served in the US Air Force for 40 years and was an NBC (Nuclear Biological & Chemical) warfare defense instructor for 18 years.

• Since 1998 he has been the Director of Emergency Management for Region 5/6 in eastern Nebraska and is the primary Offsite Response Organization (ORO) for the Fort Calhoun Nuclear Power Station.

• Bill is a Master Exercise Practitioner (MEP). He attended University of Wisconsin and the Senior REP program at the Naval Post-Graduate School.

• Bill instructs the Advanced Radiological class at the Center for Domestic Preparedness (CDP) and a member of National Alliance For Radiation Readiness (NARR)
NUCLEAR POWER PLANT EMERGENCY PLANNING

William (Bill) Pook, MEP
Region 5/6 Emergency Management / Homeland Security

NARR- National Alliance for Radiation Readiness
International Association of Emergency Managers (IAEM)
ORO/Fort Calhoun Nuclear “Storage” Facility
Center for Domestic Preparedness: Advance Radiological Incident Operations
There are 61 commercially operating nuclear power plants with 99 nuclear reactors in 30 states in the United States.

There is only 1 NPP own by public power (Cooper Station- Nebraska Public Power District)

The R. E. Ginna Nuclear Power Plant in New York is the smallest nuclear plant, and it has one reactor with a net summer electricity generating capacity at 508 MW.

The newest nuclear reactor to enter service, Watts Bar Unit 2 with 1,150 MW net summer electricity generating capacity, began commercial operation in October 2016.

Four new nuclear reactors are actively under construction: Vogtle Units 3 and 4 in Georgia and Virgil C. Summer Units 2 and 3 in South Carolina.
EACH NUCLEAR POWER PLANT IS SURROUNDED BY A 10-MILE EMERGENCY PLANNING ZONE (EPZ)
2 MILES 10 MILE PLUME 50 MILE INGESTION
### The 10-Mile EPZ's Vary in Population

<table>
<thead>
<tr>
<th>Location</th>
<th>Population</th>
<th>Reception &amp; Care Centers</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fort Calhoun</td>
<td>20,000</td>
<td>2</td>
</tr>
<tr>
<td>Massachusetts</td>
<td>252,200</td>
<td>3 over-lapping EPZ's</td>
</tr>
<tr>
<td>Three Mile Island</td>
<td>226,034</td>
<td>11 Reception and Care Centers</td>
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FEDERAL AUTHORITY & RULES FOR R&C C

10 CFR- NRC Regulations
NUREG -0654/ FEMA-REP-1
REP Program Manual
State and local Statutes/Acts ( State and Local Plans)
Deeply rooted in case law
MANDATORY TRAINING AND EXERCISES

Quarterly Drills (mostly communications based)
Biannual Functional Exercise - Plant - States - Locals
Biannual FEMA Evaluated Functional Exercise with a Dress Rehearsal
50 Mile Ingestion tested every 8 years
Hostile Action/Terrorism tested every 8 years
Offsite annual documented responder training

..... Schools, bus drivers, Law, Fire, EMS, EOC, Elected Officials, emergency workers, monitors, RSO, communications, PIO.......

Annual Letter of Assurance to FEMA from State/locals annually
TOOLS FOR THE ORO COMMUNITY

**Radiological Assessment System for Consequence Analysis - RASCAL**

The RASCAL code is a tool used by the Protective Measures Team in the U.S. Nuclear Regulatory Commission's (NRC's) Operations Center for making independent of the Plant dose and consequence projections during radiological incidents and emergencies.

**RadResponder**

RadResponder is flexible architecture enables organizations to rapidly and securely record, share and aggregate large quantities of data while managing their equipment, personnel, interagency partnerships, and multijurisdictional event space.
Feel free to contact me with any questions for radiological training and exercise development.