Neurological Effects after Chemical Nerve Agent Exposures
Neuroscience Center National Institute of Neurological Disorders and Stroke
National Institutes of Health Bethesda, Maryland
Feb 26-27, 2014

Agenda

Day 1
7:00 AM  Welcome and Registration

General Session I (Conference Room C, 1st Floor)

8:00 AM  Welcome
Story Landis, PhD
Director, NINDS

Goals and Objectives
David Jett, PhD
Program Director, NIH CounterACT Research, NINDS, NIH

8:20 AM  HHS Research Requirements
Susan Cibulsky, PhD
Office of the Assistant Secretary for Preparedness and Response

8:40 AM  FDA Perspective
Luciana Borio, MD
FDA Assistant Commissioner for Counterterrorism Policy

9:00 AM  The Animal Rule
Andrea Powell, PhD
FDA CDER Office of Counter-Terrorism and Emergency Coordination

9:45 AM  Break
Coffee and refreshments available in the NSC Cafeteria, 1st floor.

10:00 AM  Overview of Human Effects of Nerve Agents
Steven Bird, MD
10:30 AM  
**Overview of Animal Studies**  
Pamela Lein, PhD  
University of California, Davis

11:00 AM  
**Panel Discussion with Morning Presenters**  
Moderator: David Jett, PhD

12:00 PM  
**Lunch**  
*Pre-ordered boxed lunches available in Conference Room E.*

**Breakout Sessions**

1:00 PM  
**Breakout Session I (Conference Room 2172, 2nd Floor)**

*Evidence for Neurological Effects in Humans*  
Discussion of the evidence for short- and long-term sub-lethal effects from OP exposures in humans, including neuropathological effects and functional deficits (cognitive, sensory, motor). What is the evidence, and what is the relationship between these chemical exposures and the effects observed (causal, correlational, association, none)?

Session Chair: Steven Bird, MD

*Breakout Session II (Conference Room D, 1st Floor)*

*Evidence for Neurological Effects in Animals*  
Discussion of what animal models exist for short- and long-term sub-lethal effects from chemical exposures, including neuropathological effects and functional deficits. What is the predictive value of animal models, both in terms of the effect of the chemical toxin, and the efficacy of potential therapeutics in humans?

Session Co-Chairs: Douglas Cerasoli, PhD and Pamela Lein, PhD

2:45 PM  
**Meeting of Workshop Session Chairs (Conference Room 2172, 2nd Floor)**

2:45 PM  
**Break**  
*Coffee and refreshments available in the NSC Cafeteria, 1st floor.*
General Session II (Conference Room C, 1st Floor)

Breakout Session Reports

3:15 PM  Evidence for Neurological Effects in Humans  
Steven Bird, MD

3:25 PM  Evidence for Neurological Effects in Animals  
Douglas Cerasoli, PhD and Pamela Lein, PhD

4:00 PM  Comparison of Human and Animal Data  
Discussion of differences and similarities between the effects seen in humans, and the data from animal models of OP toxicity. These will be discussed in the context of developing animal models that are more predictive of the effects seen in humans.

Session Co-Chairs: W. Kent Anger, PhD and Mark Kirk, MD

5:00 PM  Lessons Learned from a Neuroprotectant Study: Neuregulin  
Byron Ford, PhD  
Morehouse School of Medicine

5:30 PM  Adjourn

6:30 PM  Informal Dinner  
Timpano Italian Chophouse
Day 2

7:00 AM    Welcome and Registration

General Session I (Conference Room C, 1st Floor)

8:00 AM    Tokyo Video and Discussion
Tetsu Okumura, MD, PhD
Superintendent Chief of the doctor’s office,
Metropolitan Police Academy, Tokyo Metropolitan Police Agency
Tokyo, Japan

8:30 AM    Welcome
Nicole Lurie, MD, MSPH
Assistant Secretary for Preparedness and Response
Rear Admiral, U.S. Public Health Service
U.S. Department of Health and Human Services

8:35 AM    Global OP Poisonings
Nicholas Buckley, BMed, MD, FRACP
Professor, Prince of Wales Clinical School
University of New South Wales
Sydney, Australia

General Session II (Conference Room C, 1st Floor)

9:00 AM    Working Groups and Workshop Deliverables
David Jett, PhD

9:05 AM    Working Group on Animal Model Best Practices
Session Co-Chairs: Pamela Lein, PhD and John McDonough, PhD

10:30 AM    Break

10:45 AM    Working Group on Research Gaps
Session Co-Chairs: Maria Braga, DDS, PhD, and Mark Kirk, MD

12:15 PM    Wrap Up and Way Ahead
David Jett, PhD and Margaret Ochocinska, PhD

12:30 PM    Adjourn Workshop