

# Preventing Blood Exposure in the Home Care Work Environment

A Collective Effort of the University of Maryland & the University of Illinois

Photographs by Earl Dotter



Supported by NIOSH: R010H008237



- Academy for Educational Development (DC)
- Addus Home Care (IL)
- o Local 880 SEIU (IL) 30,000 members
- o Local 150 SEIU (WI) 2,500 members
- University of Illinois School of Public Health
- University of Maryland, Work and Health Research Center







## • • Specific Aims

- To compare and contrast blood exposure and available hazard controls among RNs and nonlicensed, personal care assistants (PCAs) working in the home.
- To assess the relationship between organization of work (OOW) factors, blood exposure, and available hazard controls in the home care

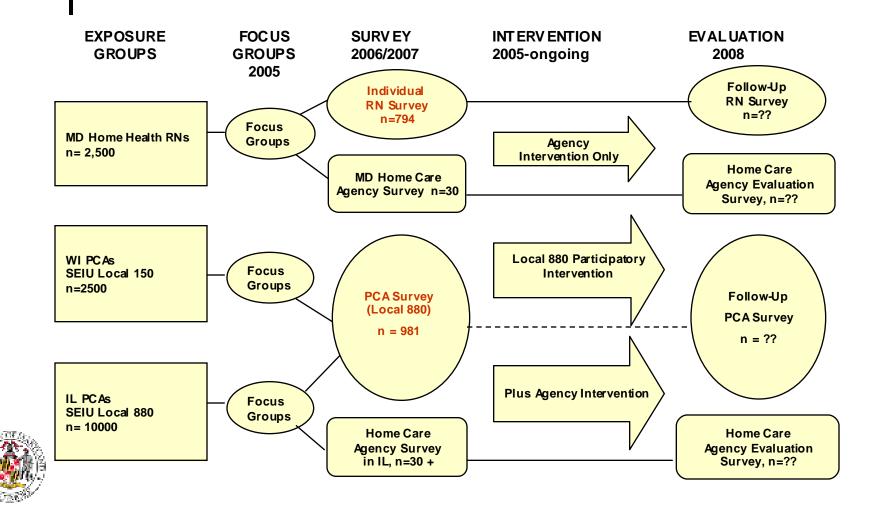




- To describe home care agency Exposure Control Plans (as required by the 2000 federal Needlestick Safety and Prevention Act) in MD and IL home care agencies.
- To evaluate changes in home care agency Exposure Control Plans following receipt of bloodborne pathogen standard compliance assistance materials.



#### Study Design Diagram





- 8 page (scanned) survey
  - Focus group generated questions
  - Standard OOW questions (COPSOQ)
  - Amalgam of existing blood exposure questions
- PCAs completed during 8 hour DOA training (mid-2006) – 85% response rate
- RNs completed mailed survey (2006) 47% response rate



### The Study Populations

- o 981 PCAs (IL) & 794 RNs (MD)
- o 81% (96%) Female
- o 69% (16%) Black/African-American
- o 7 (10) yrs (ave.) in home care
- o 5 (5) yrs (ave.) with current employer
- o 33% of PCAs held certifications (CNA)
- o 33% of PCAs care for family members





- 4-6% reported performing colostomy, gastric tube, foley catheter, wound drain, tracheostomy care, bowel stimulation in work week
- o 11% change wound dressing
- o 13% disposal of sharps
- o 74% change dirty linen





- RNs report the following activities sometimes or often per day
  - 11% start IVs
  - 12% give injections
  - 31% draw blood
  - 50% change wound dressing











Copyright 2007, Jane Lipscomb, lipscomb@son.umaryland.edu





Copyright 2007, Jane Lipscomb, lipscomb@son.umaryland.edu









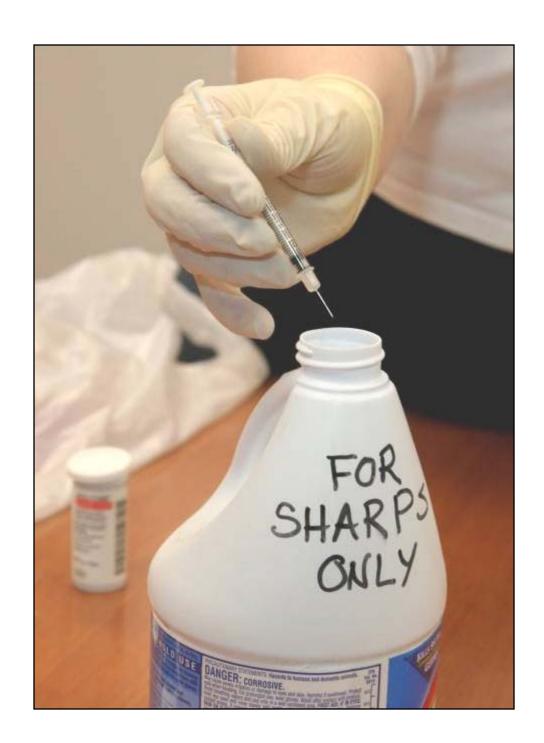


- o 84% of PCAs reported using correct sized gloves (43% provided by self)
- o 87% of RNs reported employers provided the correct size gloves
- o 5% of PCAs reported using sharps containers
- o 88% of RNs reported employers provided sharp containers





- 7% reported disposing of sharps during a typical day
- o 23% of homes that need a sharps container do not have one
- 67% reported disposing sharps container in the trash
- o 13% reported that if client does not have a container, sharps are thrown in trash





Copyright 2007, Jane Lipscomb, lipscomb@son.umaryland.edu







## Sharps Related Injury and Exposure – PCAs (N=981)

- o 3% of PCAs reported past year sharps related injury
- o 39% of these sharps injury involved use of a lancet/needle
- o 18% of sharp injuries took place when disposing of a needle/lancet or taking out the trash





## Non-sharps Related Injury and Exposure PCAs (n=981)

- 2% reported having a blood/body fluid contact to non-intact mucus membranes or skin in the past year
- o Activity most frequently cited during blood/body fluid contact:
  - 8 during cleaning soiled clients
  - 6 during bandage change





- Non-sharps injury rate\*
  - PCA rate of 8.4 per 100 FTE
  - RN rate of 37.6 per 100 FTE
- Sharps injury rate\*
  - PCA rate of 10.1 per 100 FTE
  - RN rate of 42.4 per 100 FTE







- o Routine HBV of 0-18 yr olds (CDC).
- BBP standard "applies to all employers who have employees with reasonably anticipated exposure to blood and other potentially infectious materials" (U. S. DoL, OSHA, 2001).
- o What about PCAs??







Copyright 2007, Jane Lipscomb, lipscomb@son.umaryland.edu