Developing PPE-Info to connect Ebola response healthcare workers to relevant PPE

The National Institute for Occupational Safety and Health
National Personal Protective Technology Laboratory
Today I’m going to take you on a Journey

**WHAT** - the heck is a standard and why is it relevant?

**WHERE** – on earth did PPE-Info (formerly PPE-PROS) come from?

**WHY** – are we involved in the Ebola response effort?

**HOW** – how are we making it happen?
WHAT - the heck is a standard and why is it relevant?
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1. A document that provides requirements, specifications, guidelines or characteristics that are used to ensure that materials, products, processes meet their intended purpose.
WHAT - the heck is a standard and why is it relevant?
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PPE standards are the **link** that connect **manufacturer products** and **employee protection**
WHERE – on earth did PPE-Info come from?

Is a compendium of national standards and information regarding respiratory and non-respiratory personal protective technologies
WHERE – on earth did PPE-Info come from?

PPE-Info was developed in response to recommendations from the Institute of Medicine (IOM) in its report.
WHERE – on earth did PPE-Info come from?

The report charged NPPTL to -

“Expand its efforts to become a national clearinghouse for information on all types of PPT”
WHERE – on earth did PPE-Info come from?

ANSI/AAMI PB70

"Liquid barrier performance and classification of protective apparel and drapes in health care facilities"

This standard establishes a system of classification for protective apparel and drapes used in health care facilities based on their liquid barrier performance and specifies related labeling requirements and standardized test methods for determining compliance.

- Status: Current
- Standard Type(s): Specification, Test Method
- Hazard Type(s): Biological
- PPE Type(s): Medical protective clothing
- Testing Lab(s): Nelson Laboratories, Inc
WHY – are we involved in the Ebola response effort?
WHY – are we involved in the Ebola response effort?

In the CDCs guidance on PPE for Ebola Response Healthcare workers –

Recommendations are given in the form of protection standards for PPE selection and use.
HOW – how are we making it happen?
HOW – how are we making it happen?

Based on the CDC guidance and your selection of “Exposure”, “Patient” designation and “PPE Type”, applicable protection standards are provided in the dropdown menu below. These standards provide differing levels of protection from microorganisms in blood and body fluids. For more information, links to standard details are provided in the PPE-Info database. CDC/NIOSH/NPPTL provides additional guidance, which explains the basic tenants of these standards. (http://www.cdc.gov/niosh/npptl/topics/protectiveclothing/).

What protection would you like to select?

- ANSI/AAMI PB70
HOW – how are we making it happen?

Response Type

Clinically Stable (e.g., Dry)
- Gown
  - ANSI/AMMI PB70 Level 3 Isolation Gown or Surgical Gown
  - EN 13795 High Performance Surgical Gown
- Coverall
  - ASTM 1670 (13.8 kPa)
  - AATCC 42 <=1g and AATCC 127 <= 50 cm H2O
  - ISO 16603 => 3.5 kPa
  - EN 20811 => cm H2O

Clinically Unstable (e.g., Wet)
- Gown
  - ANSI/AMMI PB70 Level 4 Isolation Gown or Surgical Gown
  - ASTM 1671 (13.8 kPa)
  - ISO 16604 => 14 kPa
- Coverall
  - ASTM 1671 (13.8 kPa)
HOW – how are we making it happen?

16 Products Found | Page 1 of 2

SmartGown fully impervious gowns - 89005
- Manufacturer: Cardinal Health
- Model: 89005
- PPE Type: Gowns
- Tested Component(s):
  - Fabric: ANSI/AAMI PB70

MICROCOOL Breathable High Performance Surgical Gown - 72445
- Manufacturer: Halyard
- Model: 72445
- PPE Type: Gowns
- Tested Component(s):
  - Fabric: ANSI/AAMI PB70, ASTM F1670 / F1670M - 08(2014)e1, ASTM F1671 / F1671M - 13
HOW – how are we making it happen?
### Electronic Verification of Product Information

**Acknowledgement**

I verify that the information provided in the excel sheet titled “Product Add, Edit & Verify” is correct to the best of my knowledge and that each row of product information has been reviewed for accuracy. By providing an electronic signature to this document, I attest to accuracy and completeness of the information provided.

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**HOW – how are we making it happen?**
SUMMARY

• Standards are one mechanism for assuring worker protection and they can be very confusing

• The IOM and Stakeholders called for a PPT Information clearinghouse and NPPTL responded with PPE-Info

• We are connecting recommended Ebola response PPE standards with relevant products

• Manufacturer partnerships are the key to our success
The success of PPE-Info is dependent on your input and partnership

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Disclaimer: The findings and conclusions in this presentation have not been formally disseminated by the National Institute for Occupational Safety and Health and should not be construed to represent any agency determination or policy.

Thank You!