

**Developing and Implementing a Personal Protective Equipment Training Programme for High
Consequence Infectious Disease Preparedness
Ruth Barratt, CNC Infection Prevention and Disease Control**



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RESEARCH ON
INFECTIOUS DISEASE EMERGENCIES

**Developing and implementing a
personal protective equipment training
programme for high consequence
infectious disease preparedness**


Ruth Barratt RN, BSc, MAdvPrac (Hons)
CNC Infection Prevention and Disease Control (Biopreparedness)

Hosted by Jane Barnett
jane@webbertraining.com




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Disclosure


- I have no actual or potential conflict of interest in relation to this presentation




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Acknowledgements

- Dr Mary Wyer, Westmead Institute for Medical Research and WSLHD
- State of Biopreparedness Committee, Westmead Hospital
- Infection Prevention and Control Team WH
- Westmead staff who trained in high-level PPE
- Professor Lyn Gilbert, University of Sydney




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Background

- Using video-reflexive ethnography to improve PPE use
- Invited to use VRE in high-level PPE training
- IPC and educator expertise
- Developed a comprehensive training programme for high-level PPE
- Current roles are federal-funded positions for NSW biopreparedness




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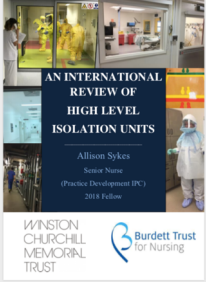
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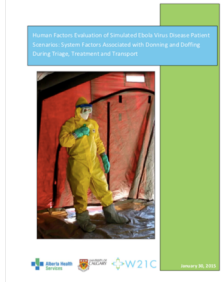
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Key influential documents


- Alison Sykes 2019: *An International Review of High Level Isolation Units*
- Alberta Health Services & University of Calgary 2015: *Human Factors Evaluation of Simulated Ebola Virus Disease Patient Scenarios: System Factors Associated with Donning and Doffing During Triage, Treatment and Transport*
- NETEC - The National Ebola Training and Education Center - <https://netec.org/>
- Numerous research articles related to safe doffing and PPE



AN INTERNATIONAL
REVIEW OF
HIGH LEVEL
ISOLATION UNITS
Allison Sykes
Senior Nurse
(Practical Development ICI)
2019 Follow
WINSTON CHURCHILL
MEMORIAL
TRUST
Burdett Trust
for Nursing




Human Factors Evaluation of Simulated Ebola Virus Disease Patient Scenarios: System Factors Associated with Donning and Doffing During Triage, Treatment and Transport
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Outline of presentation

- Introduction to HCID
- What we have done so far to prepare for HCID
 - Hierarchy of controls
 - Facility
 - Policy
 - PPE
- Developing and implementing the training programme



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High Consequence Infectious Diseases (HCID)¹

- Acute infectious disease
- Typically has a high case-fatality rate
- May not have effective prophylaxis or treatment
- Often difficult to recognise and detect rapidly
- Ability to spread in the community and within healthcare settings
- Requires an enhanced individual, population and system response to ensure it is managed effectively, efficiently and safely

¹ UK Government 2019

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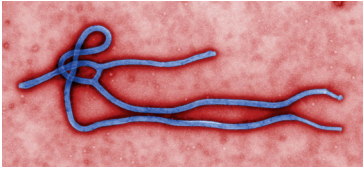
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HCID

Contact transmission

- Viral Haemorrhagic Fevers
 - Ebola virus disease (EVD)
 - Lassa fever
 - Marburg virus disease (MVD)



Airborne transmission

- 2019-nCoV acute respiratory disease
- Avian influenza A
 - H5N1
 - Other novel human pathogenic influenza
- Severe acute respiratory syndrome (SARS)
- Middle East respiratory syndrome (MERS)
- Monkeypox

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HCID threat

- 2014-2016: West Africa Ebola Zaire outbreak
 - 28,616 people affected, 11,310 deaths
- 2014: MERS outbreaks
 - Middle East but also S Korea
 - Hospital transmission
- 2018 – present: EVD Democratic Republic of the Congo
 - Public Health Emergency of International Concern (WHO 2019)
 - 3421 cases / 2242 deaths / 1154 survivors (as of 28/1/20)
- 2019 – present 2019-nCoV acute respiratory disease

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Local HCID preparedness


- Westmead Hospital in Sydney – state facility for NSW (adults)
- Isolation facilities - existing and new
- HCID policies and procedures
- PPE
- Staff training



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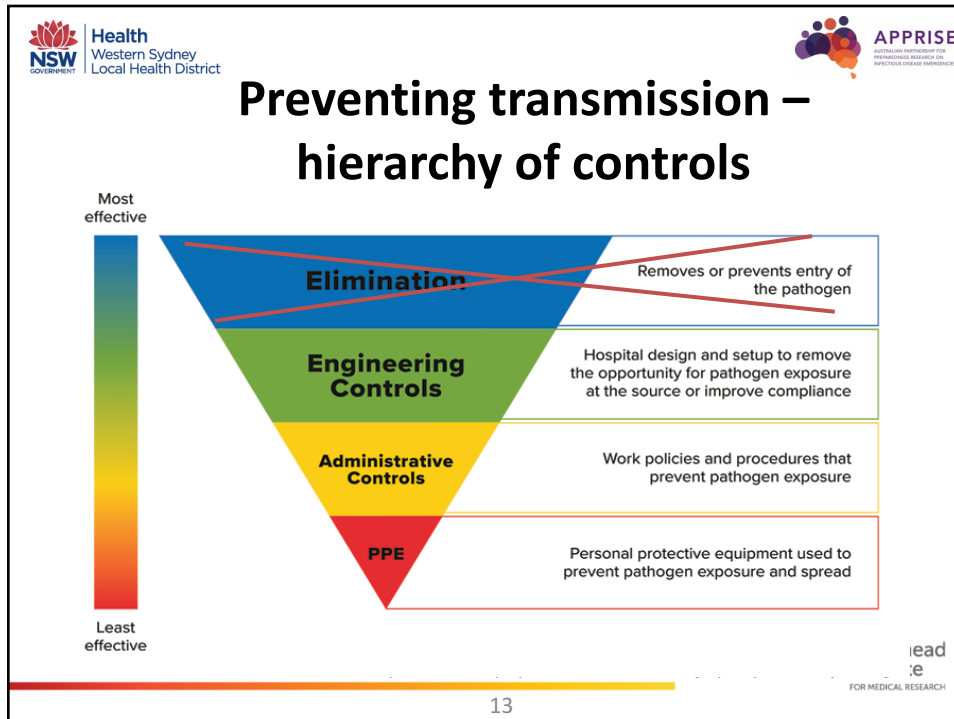
Local HCID preparedness

- Build on work done in 2014-2015 and with SOB project team
- DRC outbreak renewed efforts to be prepared as the state facility
- Training programme linked to other HCID preparedness activities e.g. policies revised
- Appointment of small multi-disciplinary team

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Engineering Controls Hospital design and setup to remove the opportunity for pathogen exposure at the source or improve compliance

Engineering controls

- Europe - high level isolation units
 - 4 in UK
- USA - biocontainment units
 - 10 regional
- Australia – infectious disease units / biocontainment units
 - 1 per state
- NZ – 1 purpose built

Trexler isolator – Royal Free Hospital, UK

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Westmead engineering controls

- Current: 2 Q-class rooms for adults
 - Dedicated beds in the ICU
 - Anteroom, patient room with ensuite
 - Utility room A
 - Staff shower
 - Utility B for transfer of waste, blood samples etc.
- New: state of the art biocontainment unit
 - Paediatric and adult beds


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Engineering Controls Hospital design and setup to remove the opportunity for pathogen exposure at the source or improve compliance

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Q-class rooms



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A Webber Training Teleclass
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Engineering Controls Hospital design and setup to remove the opportunity for pathogen exposure at the source or improve compliance

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Engineering controls

- Organisation of PPE supplies in donning area
- Build upon existing dirty and clean zones
- Tape on floor for doffing
- Minimal equipment/supplies in room
 - Checklist with photos
- Signage
- Hands free ABHR dispenser
- Cuff first gloves dispenser

I64 BINS
(used for patients with high-consequence infectious diseases)

RED labelled I64 Bins **MUST NOT** leave the Q-Class rooms without being double bagged in hazardous waste bags



High Consequence Infectious Diseases Westmead Hospital September 2019

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Administrative Controls Work policies and procedures that prevent pathogen exposure

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Administrative controls

- Operational procedures to prevent/minimise exposure
 - Buddy system
 - Change in practice to minimise entries
 - ↓ number of people exposed
 - ↓ doffing risks
 - Clinical interventions – radiology, IV, dialysis
 - Waste
 - Environmental cleaning
- Training
 - Donning and doffing PPE
 - Procedures

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Operational procedures – doing the job

- The safety of staff **MUST** take precedence over patient safety
 - **BUT**, the patient is a person
- Confidence in PPE protection
- Understanding transmission routes
- Adapting IPC principles to the physical space
- Using a Buddy



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Administrative Controls Work policies and procedures that prevent pathogen exposure

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Buddy responsibilities

- Being vigilant in spotting defects or breaches in PPE while HCWs are in the patient room
- Observing HCWs for heat stress or fatigue related to PPE
- Monitoring compliance with PPE protocols
- Guiding, correcting, and assisting during donning and doffing
- Adhering to the **Call / Do / Respond** method
- Warning HCWs of potential risky actions (e.g., touching face)
- Being informative, supportive and well-paced in issuing instructions or advice
- Protecting themselves through proper PPE use during doffing
- Anticipating and planning for risks

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Specific procedures

- Cleaning up a blood or body fluid spillage
- Phlebotomy and preparing the samples for transport to the laboratory
- Transferring waste bags from the dirty zones
- Procedure for changing outer gloves



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Training

Train specifically for knowledge and skills relating to:

- **Self-awareness** of habitual behaviours and the importance of minimizing them
- **Hazard identification**, awareness of where contamination may occur and knowledge of how to respond appropriately should contamination occur.
- **Familiarity with PPE**, specifically how it will affect HCW mobility and dexterity, as well as how their body reacts to heat stress.
- **Procedural competency**, repetitive training including appropriate technique for the motions associated with doffing PPE and checklist use.
- **Buddy roles** that support HCW including the management of PPE breaches, minimising the spread of contamination, and avoiding high risk behaviours.

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PPE Personal protective equipment used to prevent pathogen exposure and spread

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Personal Protective Equipment

- PPE based models of delivery
 - Different PPE ensembles
 - No global consensus on individual PPE items
- PPE is unfamiliar and constraining
- High probability of error when doffing – self contamination



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PPE Personal protective equipment used to prevent pathogen exposure and spread

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PPE checklists


- Checklists used for both donning and doffing
 - Used video reflexivity to improve checklists and doffing procedures
 - Learn from healthcare workers
- Buddy system used (trained observer)
 - Consider a third person if resources allow
- **CALL, DO, RESPOND** method
 - Physically tick the check list
 - Include regular reassurance (doffing)
- Minimise steps that require the Buddy to touch the HCW when doffing

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PPE Personal protective equipment used to prevent pathogen exposure and spread




Selection of PPE

- Availability – currently / in global emergency
- Gowns versus coveralls with mask or PAPR
- Adequate coverage
- Protection for mucous membranes
- Ability to move and work in PPE
- Ease in doffing – minimises breaches
- Staff acceptance

PERSONAL PROTECTIVE EQUIPMENT

| | |
|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 1. Hospital scrubs | 2. Non-slip socks |
|  |  |
| 3. Rubber clogs | 4. Booties |
|  |  |
| 5. N95/P2 mask | 6. Hood |
|  |  |
| 7. Inner gloves | 8. Gown |
|  |  |
| 9. Face shield | 10. Outer gloves |
|  |  |



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PPE Personal protective equipment used to prevent pathogen exposure and spread



Gowns & Coveralls


Gown

- Surgical gown
 - knitted cuffs
 - wrap around (coverage)
- AAMI 4 level - whole gown
- Weight - comfort
- Length
- Fit & sizing
- Neck fastening (doffing)

Coverall

- Protection level
- ? Hood or no hood
- Integral finger loops (middle finger)
- No integral feet (trip hazard)
- Covered zipper
- Zipper cord

Additional plastic apron or gown?



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PPE Personal protective equipment used to prevent pathogen exposure and spread

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Gloves

- Different colours for inner and outer
- Long cuffs e.g. chemotherapy gloves
- Thickness – dexterity
- 2 pairs or 3 pairs
- Taping of gloves
 - ease of removing tape – no scissors
 - longitudinal or circumference
 - risk of tearing gown
- Glove dispenser – cuff first



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PPE Personal protective equipment used to prevent pathogen exposure and spread

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Face and head cover

- Mask over or under hood
- Goggles and/or face visor
- Hood with shroud
 - Material
 - Fit
 - Availability
- PAPR
 - Availability of suitable hood
 - Motor outside or concealed
- Disposable versus reusable



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PPE Personal protective equipment used to prevent pathogen exposure and spread

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Foot coverings

- Plastic shoes
 - Colour coded for size
 - Easily disinfected
- Booties
 - Long enough with gown
 - Non-slip sole
 - Ties versus elastic
 - 2 sizes



Note: The booties are the trickiest item to remove

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PPE Personal protective equipment used to prevent pathogen exposure and spread

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Other PPE items

- Scrubs – disposable scrubs were transparent
- Sports bands for personal glasses
- Non-slip socks
- Hair ties and clips
- Anti-fog spray
- Tape
- Permanent marker



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Training programme

- Aims and learning outcomes
 - To equip participants with the ability to understand and demonstrate safe donning and doffing of high-level PPE
 - To give clinicians the experience of performing common procedures while wearing full PPE
 - To understand the role of the Buddy
- Use of WSLHD lesson plans
- Incorporate video-reflexive ethnography as a learning tool

Video reflexive ethnography

- Video clinicians working in and doffing PPE
- Show the footage to them individually or in groups for reflexive discussion
- Makes explicit the complex reality of high-level PPE
- Assists clinicians make sense of their own PPE practices and contexts – self-awareness
- Leads to improvements in individual behaviour and procedures



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Planning

- Attendees
 - Emergency Department
 - Infectious Diseases
 - Critical Care
 - Public Health
 - IPC
- Content:
 - Theory
 - Classroom
 - Simulation
 - Debrief
- Numbers limited by:
 - Space for demo and practical component in classroom
 - Opportunities in Q-class rooms
 - Expert feedback



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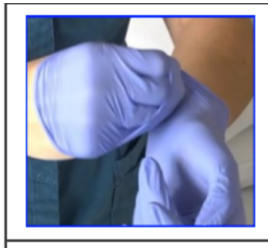
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Planning (cont.)

- Training time:
 - Pre-training - watch video for safe glove removal methods
 - 8 hours initial training day
 - 4 hours credentialing session
 - 1 hour 3-month refresher
- Admin
 - Training day preparations
 - Data entry – PPE sizes, credentialing etc

Beak method of glove removal



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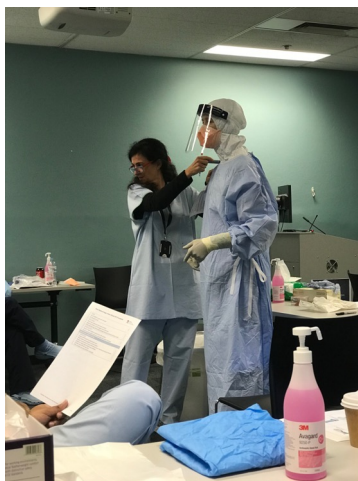
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8-hour day - morning

- PPT intro – 1hr
- PPE sizing and collection of items & brief tour of Q-class rooms
- Demonstration of donning and doffing PPE then practice
- Videos of procedures



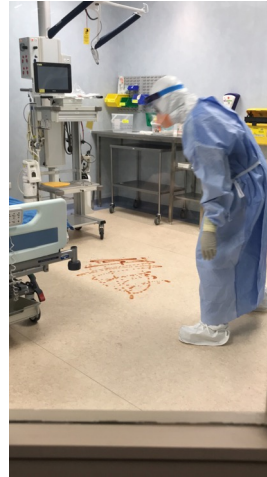
Classroom demo and practice



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8-hour day - afternoon

- Practice donning and doffing in real space
- Practice being a Buddy
- Practice undertaking procedures in PPE
- Debrief
- Evaluation



4 hours for credentialing

- Requires 5 practices
 - 1 counted from 8-hour day
- Don and doff 4 times
 - Assessed on final
 - Re-use gown, hood, visor and booties
- Maximum 4 people
 - 2 persons per session per Q-class room
 - 2 assessors (experts)
- Competency tool based on state but revised in-house
- Include research follow up




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Refresher training

- 3 month in normal time
 - More frequently if alert locally/nationally
- Don and doff x 1
- Act as doffing Buddy
- Ideally 2 persons
- In real space
- Incorporate other procedures if time allows
- Minimum 1 hour



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Summary

- >50 people have now completed the initial training, credentialing and 3-month refresher
- Resource intensive – time!
- Benefit by having a dedicated space always available
- Inclusion of research useful and clinician opinion critical to confidence of staff in using PPE

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Conclusion

- Preparation for HCID is important for public health and protection
- Training in routine and high level safe donning and doffing PPE is an essential component of preparedness
- Planning should allow for resources and sustainability

A bit of fun – a pandemic limerick

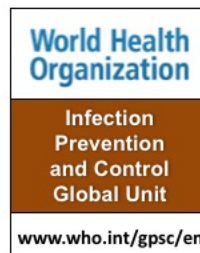
- There was an infectious disease
- Which brought the whole world to its knees
- When they sneezed and they coughed
- We donned and we doffed
- And survived with barely a sneeze



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| www.webbertraining.com/schedulep1.php | |
|--------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| February 27, 2020 | ANTIBIOTIC STEWARDSHIP IN NURSING HOMES Speaker: Prof. Patricia Stone , Columbia University, School of Nursing <i>(European Teleclass)</i> |
| March 3, 2020 | THE EFFICACY OF INFECTION PREVENTION AND CONTROL COMMITTEES IN AFRICAN SETTINGS Speaker: Eltony Mugomeri , Africa University, Zimbabwe <i>(FREE Teleclass)</i> |
| March 12, 2020 | THE BUZZ AROUND MOSQUITOES AND MOSQUITO-BORNE DISEASES Speaker: Dr. Marcia Anderson , Environmental Protection Agency |
| March 19, 2020 | INFECTION PREVENTION AND CONTROL IN HOME CARE AND HOSPICE: COMMON COMPLIANCE ISSUES Speaker: Mary McGoldrick , Home Health Systems, Inc. |
| April 16, 2020 | WATERBORNE PATHOGENS: WHY IS THEIR PROFILE CHANGING? Speaker: Prof. Syed A Sattar , Centre for Research on Environmental Microbiology, Canada <i>(South Pacific Teleclass)</i> |
| April 29, 2020 | SHARPES INJURIES – WHY AREN'T WE AT ZERO? Speaker: Terry Grimmond , Grimmond and Associates, New Zealand BEYOND HIGH-TOUCH SURFACES: PORTABLE EQUIPMENT, FLOORS AND |

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