

E-Textiles 2024 Network Event - Is NHS PPE Fit for the 21st Century?

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12 September 2024

Agenda

- Introduction
- Current PPE
 - Products
 - Issues
 - Volumes
- What could be resolved?
- Considerations
- Summary and any questions

Current PPE – plus recent improvements



Single use



Reusable



Gown



Improvements:

- Reusable masks
- Reusable aprons
- Reusable eye protection
- Reusable gowns
- Reusable respirators

TIIR Mask – EN14683:2019



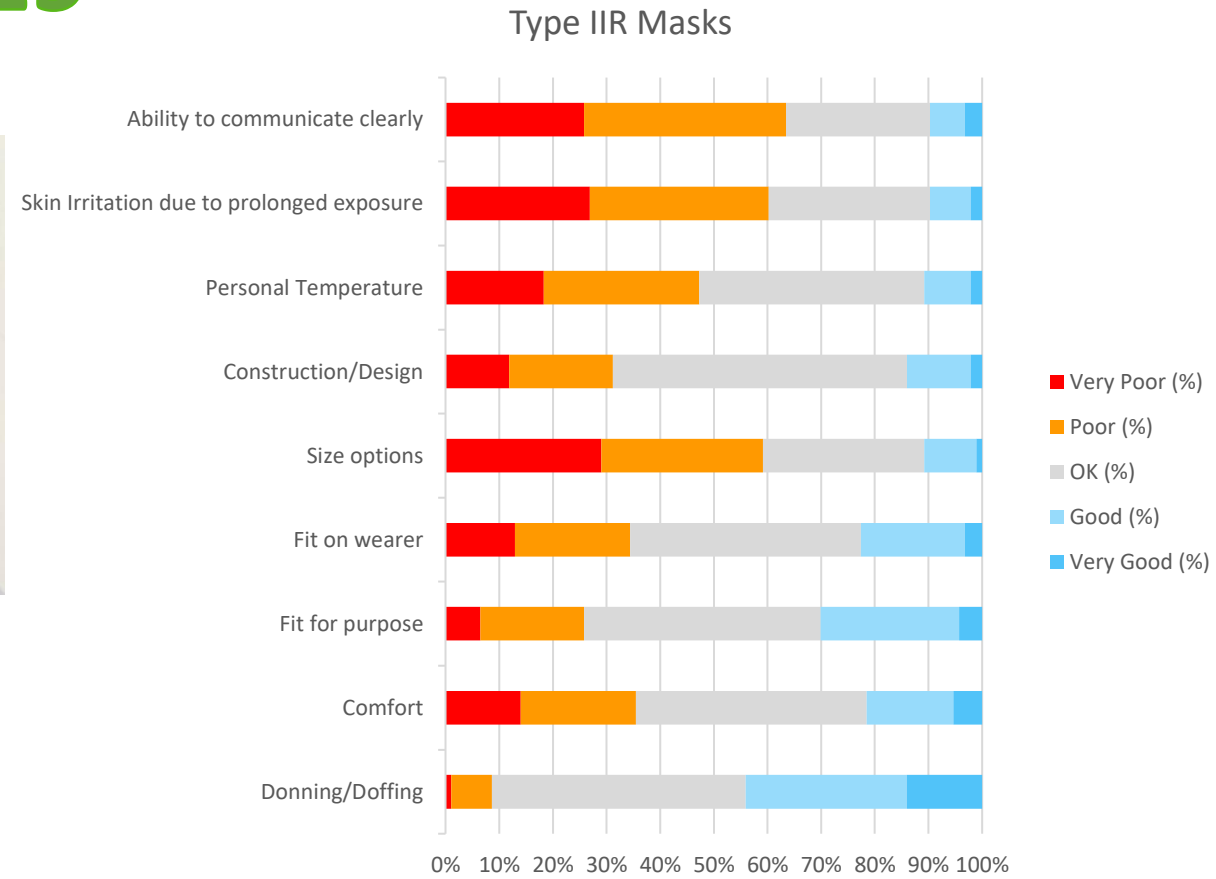
Single use



Reusable

Single use - additional issues:

- Effectiveness when moist
- Volume 1.2bn, 450m pre-pandemic
- Waste



Single use findings

Gowns – EN13795:2019



Issues:

- Heat
- Testing post laundry
- Contaminated or not
- Tracking
- Volume 38m, 12.5m



Aprons – BS EN7765-1:2004, BS EN6383-2:2004



Single use

Issues:

- Sizes
- Don't tear off
- Effectiveness
- Volume circa 1.2bn, 664m
- Waste
- Colour coded aprons in wards: yellow - caring for patients in isolation; pink for serving meals and white for general use



Reusable

Respirators – EN149, EN140 & EN143, EN1827



Single use



Reusable

Issues:

- Communication
- Heat
- Effectiveness
- Volume 86m, 13m (inc FFP2)



Reusable

- Size, fit & comfort
- Filter contamination
- Fogging glasses
- Waste



Prototype

What could be resolved?

- Improved communication
- Temperature controlled
- PTT/light functionality
- Pathogen detection – alert or indication
- Failure alert
- Usage limit alert



Considerations

- Behaviour Change
- Standards
- Tracking
- Procurement
- Trial/pilot
- Tender or framework
- Cleaning/decontamination
- Robust product or specialist process
- End of life



Summary and any questions

- Communication – d/Deaf and all staff
- Temperature – everyone is different
- Alerts
- Tracking
- Standards
- Procurement
- Laundry/decontamination
- End of life