

A large recycling symbol composed of three chasing arrows in light green and yellow, forming a triangular shape. In the center of the symbol is a blue and white globe showing the continents of North and South America. The entire graphic is set against a background that transitions from a light green at the top to a light blue at the bottom.

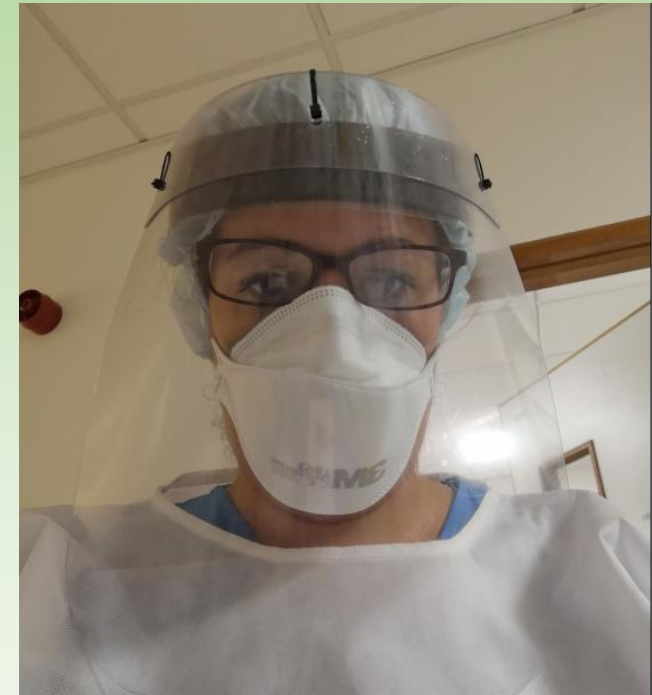
The Eco Bed-space
By
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&
Jen Moon

The beginning...

Clinical waste bins throughout critical care



Enhanced PPE



Progress

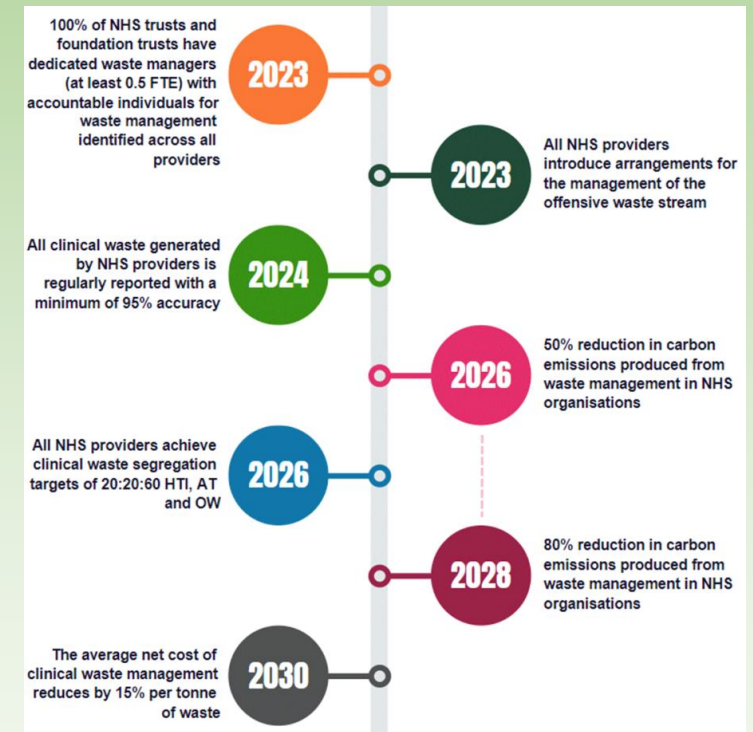
- Domestic waste bins re introduced
- Introduction of offensive waste stream to replace clinical waste
- Recycling bins at nurses stations

- PPE downgraded
- Gloves, aprons and masks to be worn in all bed-spaces
- Further downgraded to
 - Airbourne
 - Droplet
 - Contact precautions





- To reduce the amount of waste being produced in critical care
- To ensure all waste is disposed of appropriately
- To make a positive culture change
- To contribute to a greener NHS
- To make people more environmentally aware
- To meet the government KPIs for waste management in healthcare



The ECO bed-space



Green Theme Bed-space

- **Green** curtains (Fluid repellent and have been cleared by IPC)
 - **Green** Gloves
 - **Green** Aprons
 - A Grand opening
- Posters strategically placed to correlate with bins.



3 Principles

- Reduce single use items.
'Gloves Are Off' Campaign
- Establish an accurate waste streaming process & initiating a **'Recycling stream'**
- Embrace **culture change**,
utilising visual aids and bedside education

Waste Flowchart

White Lidded Bin

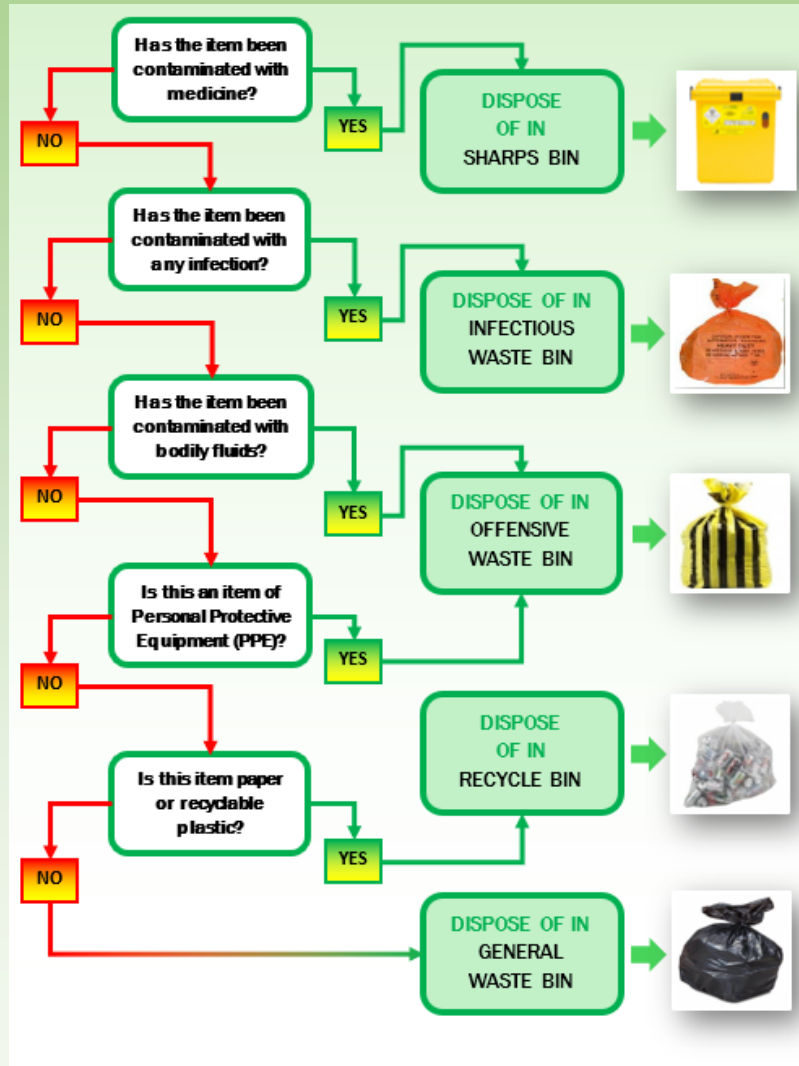
Not sure where to place items



Dispose of them here



The Eco team will regularly check and empty this bin to help lead our education and knowledge



Think!

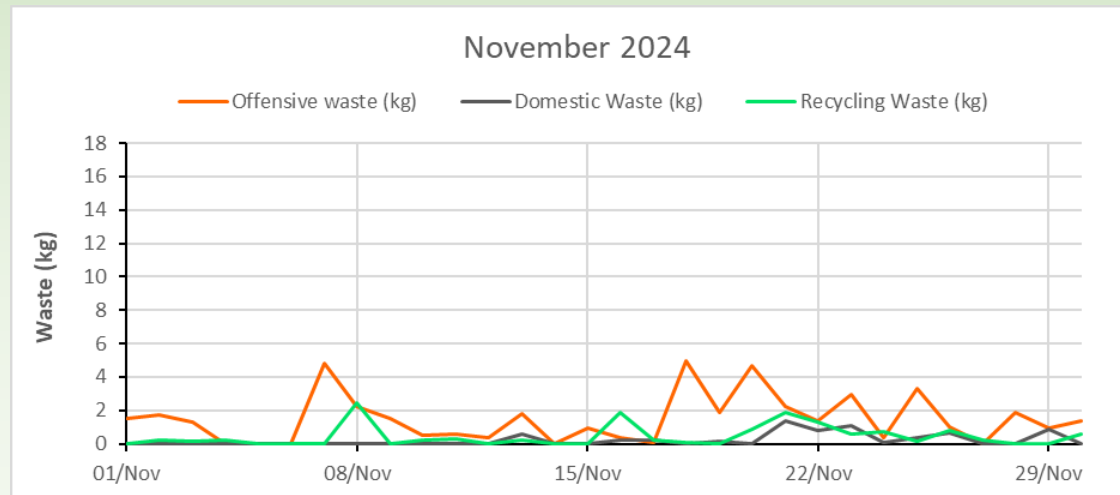
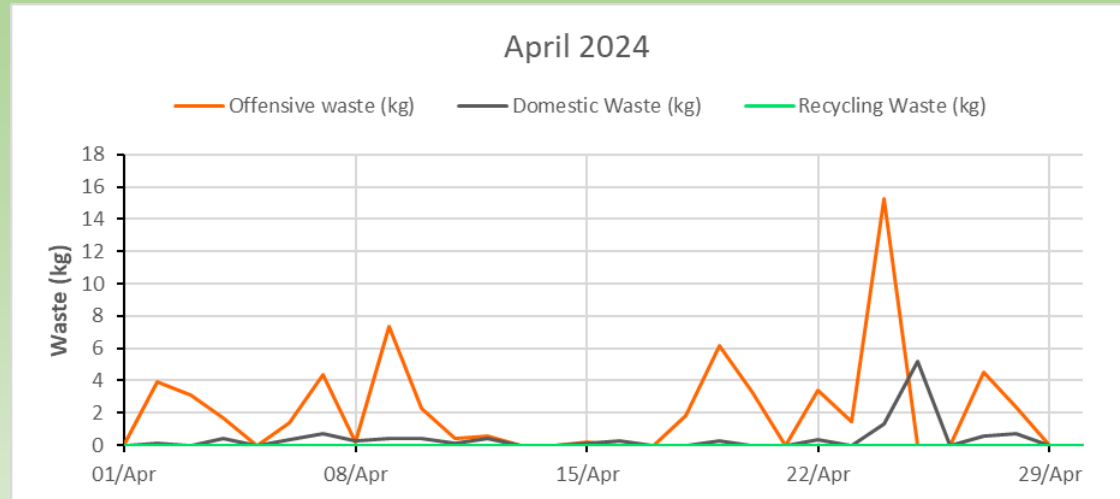
Do You Need To Wear Gloves?
Are You Touching Bodily Fluids?

Mystery Bin



- The mystery bin encouraged staff to place items in this bin when they were unsure, sparking curiosity and giving an opportunity for bedside education.
- This was monitored by the Eco champions and feedback was provided to optimise recycling opportunities.

Results



£1062
Yearly
Saving

Glove Reduction

GLOVES OFF
in critical care

Intensive Care Society

**Before you reach for gloves
stop and ask 'Am I at risk?'**

The risks requiring you to wear gloves at work are:

- 1 If direct contact with blood, bodily fluids, mucous membranes or non-intact skin is likely
- 2 If contact with chemical hazards is likely
- 3 If caring for a patient requiring specific transmission-based precautions (check your local policy)*

Unnecessary glove use contributes to environmental damage and skin damage, and it disrupts good hand hygiene practice.

**Be glove aware and only wear them
when you need to.**

Endorsed by

BAICN **ips** Infection Prevention Society

*With credit to Sam Clark and the team at Wirral University Teaching Hospitals NHS Foundation Trust
<https://way.office.com/Sc6Hkq5As4mxQIS?ref=link>

[ics.ac.uk/sustainability](https://www.ics.ac.uk/sustainability)

£5,500
per year
saving!

£5,500
per year
saving!



8 Ventilators =

The weight of examination gloves saved
in **ONE YEAR!**

The weight of examination gloves saved
in **ONE YEAR!**



- To incorporate sharps and medicinal waste into our programme
- To work with SharpSmart to successfully implement new bins
- To look at financial implications of medicinal waste
- To continue to look at single use items/perishables
- Antimicrobial stewardship & drug doses

Phase 2



Blue theme clinical space

- Blue Posters
- Blue Storage Containers
- Blue Bunting



The Eco Med-space



3 Principles

- Switching from Intravenous to oral or enteral preparations where appropriate
 - Reduce single use items
(focusing on multi drug giving sets)
- Accurate disposal of sharps and pharmaceuticals

Bioavailability 90%



Bioavailability 35-65%



Bioavailability 80%



Bioavailability 60-70%



Converting IV to Enteral



Think! Would an oral alternative be suitable?

Bioavailability 60-70%



Bioavailability Omeprazole – Lansoprazole 80-90%



Bioavailability 70-80%



Bioavailability 96%



Bioavailability 30-40%



Assessing patient for suitable enteral route of administration

- Has the patient got a viable route?

 - Safe swallow

 - NG/NJ/Peg

- Is the patient Nil by mouth?

 - Awaiting a procedure?

- Has the patient had recent bowel surgery?

 - Check with surgeons

- Does the patient have good gut absorption?

 - Less than 300mls aspirate every 4 hours

Multi use drug lines



- Initially the giving set must be primed with 0.9% saline
- The 1st drug is then administered with full VTBI programmed into the pump.
- After administration a new 0.9% saline flush is administered via infusion pump. 25mls programmed at same rate as previous drug.
- This flush stays in place until the next drug is due
- These lines can last 24hour and can be used for a multitude of drugs.



Advantages

Sustainability

- Reduction in single use items
- Reduces volume of giving sets going into sharps waste
- Reduces packaging associated with giving sets
- Saline bottles are fully recyclable and have no packaging per item

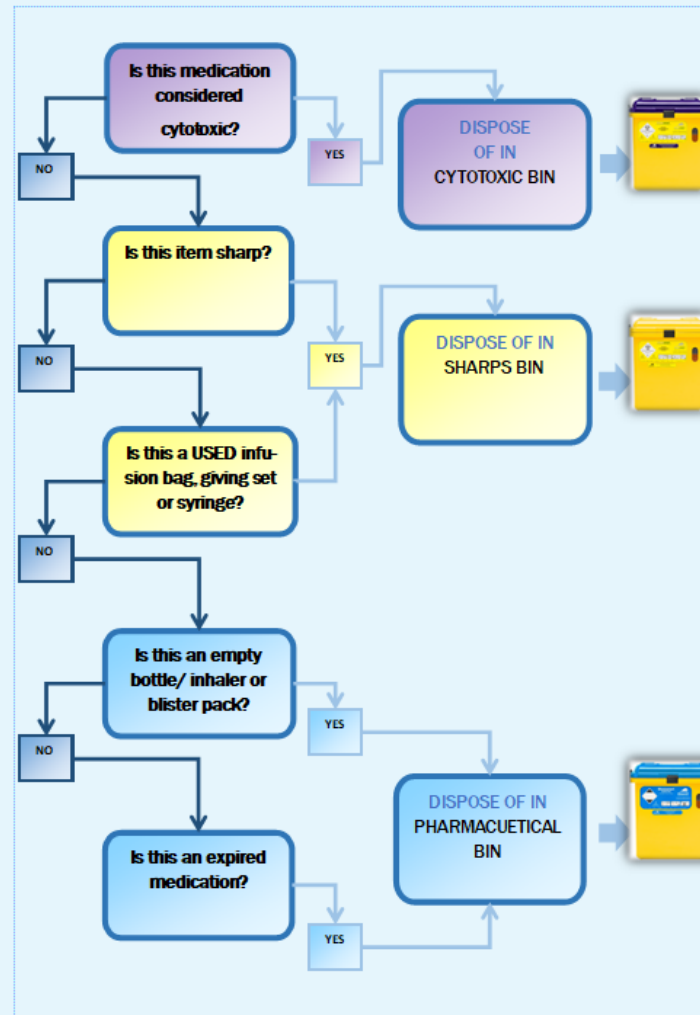
Other

- Ensures full dose of medication is given every time
- Increased efficacy of treatment
- Anti-microbial stewardship
- Faster recovery times
- Reduced hospital length of stay

Medicines and Sharps flowchart

Pharmaceutical Bin

- Pre patient contact preparations
- Stock for disposal
- Expired medications
- Empty blister packs
- **NO SHARPS**



Sharps Bin

- Items that are sharp enough to pierce a bag
- Used infusion bags and giving sets
 - Syringes or other items contaminated with medications



Team effort

- Claire Fowler – Matron
- Tracy Lewis and Emily Sinfield – Educators
- Michelle Bevan, Magda Dennis, Scott Williams, Natalie Cowan, Bobbie Buddle and Charlotte Scutt - Eco sustainability champions
- Mark Airey – Waste Manager
- Matthew Baldwin – Stores
- Dom Sands - SharpSmart
- Celina Wong, Alice Gould, Linda Wood– Pharmacy team
- Catherine Maskell and Joe Allan- Infection Prevention and Control
- Matt Hobleby – Vascular Access
- Olly Honeywill – Senior Administration Assistant

The end...



Eco Initiation Pack

Eco Bed-Space



Eco Med-Space



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