NHS
Nottingham
University Hospitals
NHS Trust

## Sustainability In Critical Care

Marginal Gains with Micro Projects

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Nottingham
Hospitals Charity
At the heart of your care

## Net Carbon Zero by 2040...

The NHS has committed to becoming net zero carbon emissions by 2040

- 4\% of England's carbon emissions are produced by the NHS.
- Poor air quality is triggering a growing number of diseases.
- A rising cost of living and increasing mental health issues.


## Our Responsibility

- The NMC
"People involved in health and care services are increasingly concerned about the environmental impact. Factors such as air quality, weather extremes and sedentary lifestyles are increasing demand on services, and we are all more conscious of where products come from, how they are made, and what happens to them when we have finished with them" NMC Strategy 20202025
- Nottingham University Hospitals Trust
"We need development that meets the needs of the present generations without compromising the ability of future generations to meet their own needs.".


## Our Carbon Emissions

Figure 2: Sources of carbon emissions by proportion of NHS Carbon Footprint Plus


## So where to start?

## Marginal gains...

## The Power of Tiny Gains



## Adult Critical Care

## The 'Bin Police’

| The typical cost per tonne of waste disposed in the Trust is: |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| £35 | £120 | £240 | £360 | £760 | £1,000 |
|  | 1 | H | $\pm$ | 晨 |  |
| 8 | 3 | $\sim$ | $\xrightarrow{2}$ |  | $\cdots$ |
| Co-mingles | Municipal | Offensive | Clinical | Clinical waste for | Cytotoxic/ |
| Recyclable | Waste | Waste | Infectious | incineration | Cytostatic |



Adult Critical Care

## Reduce, Reuse, Rehab \& Recycle



A reduction of toiletries used from hospital stock minimises single-use plastic waste. Reusing patients own toiletries can help a patient feel more like themselves, and
 encourages rehabilitation.

## Reducing stock waste



## IV vs. Oral Paracetamol




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## Cool sticks

- Reducing the use of Ethyl Chloride local anaesthetic spray, and implementing cool sticks to assess sensory block.


## Staff areas

- Recyclable cups
- Cutlery
- Online staff files


Adult

## The future....



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## References

- Cranfield, K., Tanner, B., \& Mulvihill, E. (2021) Costs, beliefs and use of intravenous versus oral paracetamol in an orthopaedic trauma unit Available at: Costs, beliefs and use of intravenous versus oral paracetamol in an Orthopaedic Trauma unit (getmoodle.net) (Accessed $30^{\text {th }}$ March 2023).
- National Health Service (2022) Delivering a 'net zero' National Health Service [Online] Available at: B1728-delivering-a-net-zero-nhs-july-2022.pdf (england.nhs.uk) [Accessed 27 th May 2023].


## Adult <br> Critical Care

